

10-3-06

Action Team – PS Council Review Draft

A2007-2009 Draft Puget Sound Conservation and Recovery Plan

Submitted to Governor Gregoire and the Washington State Legislature
December 2006

Puget Sound Action Team

Appendix of Agency Budget Detail **Puget Sound Action Team & Council Review Draft**

The information in this Appendix to the *2007-2009 Puget Sound Conservation and Recovery Plan*, the Puget Sound biennial work plan, is submitted to the Governor and the State Legislature by Puget Sound Action Team agencies and university environmental education programs. The appendix describes activities and proposed results to be accomplished with funding proposed under the plan for July 2007 to June 2009, as both legislative proviso and non-proviso appropriations. Chapter 90.71 RCW, section 050(4) states: "The work plan shall be implemented consistent with the legislative provisos of the biennial appropriation acts."

The proposed *2007-2009 Puget Sound Conservation and Recovery Plan* that includes the priorities, strategies, results and proposed budgets can be found on the Puget Sound Action Team's website at http://www.psat.wa.gov/Publications/07-09_plan/07-09_plan.htm

Table of Contents

Key to Agency Budget Information	2
Department of Agriculture	3
Department of Community, Trade and Economic Development	4
Conservation Commission	5
Department of Ecology.....	10
Department of Fish and Wildlife	30
Department of Health	52
Department of Natural Resources.....	59
State Parks and Recreation Commission.....	68
Puget Sound Action Team Staff	72
Department of Transportation	87
University of Washington Sea Grant Program.....	90
Washington State University Extension	94

Key To Budget Information

Budget Code: A budget code is assigned by agencies to a programmatic or topical division of agency funds in the work plan. Proposed funding under each budget code identifies activities or a program that supports one or more related priorities and results in the work plan.

Carry Forward Level Proviso Funds: Funds appropriated as a proviso by the legislature, specifically designated to implement the Puget Sound work plan during the 2003-2005 biennium that are carried forward in proposed budgets for 2005-2007.

Other continuing funding: Non-proviso funds that agencies are voluntarily reporting on so that Puget Sound benefits can be tracked.

Proposed Enhancements for 2005-2007: Proposed increases in funding by state agencies for the 2005-2007 biennium.

Total: The total amount of funds proposed as carry forward level proviso funds, continuing non-proviso funds, and proposed enhancements for 2005-2007 for each budget code.

Fund: The proposed source of the funds (see coded list of funding sources below).

Puget Sound Plan Programs: Programs in the *Puget Sound Water Quality Management Plan*, the long-term state and federal plan to protect and restore Puget Sound.

Codes for Funding Sources		Codes for Puget Sound Plan Programs	
Operating Fund Sources		AG	Agricultural Practices
GF-S	General Fund-State	AQ	Aquatic Nuisance Species
GF-F	General Fund-Federal	EPI	Education and Public Involvement
WQA	Water Quality Account	EM	Puget Sound Estuary Management
WQPF	Water Quality Permit Fees	FP	Forest Practices
STCA Op	State Toxics Control Account	L	Laboratory Support
VRA	Vessel Response Account	MB	Marinas and Recreational Boating
OSPA	Oil Spill Prevention Account	MFH	Marine and Freshwater Habitat Protection
FAWA	Freshwater Aquatic Weed Account	MR	Monitoring and Research
HWAA	Hazardous Waste Assistance Account	NP	Nonpoint Source Pollution
ALEA	Aquatic Lands Enhancement Account	OSS	Onsite Sewage Management
GF-P/L	General Fund-Private Local	PM	Pest Management
DVRA	Derelect Vessel Removal Account	M&I	Municipal & Industrial Discharges
OSAA	Oil Spill Assistance Account	PS/GB	Puget Sound/Georgia Basin Shared Waters
MVF	Motor Vehicle Fund	S	Contaminated Sediments
Capital Fund Sources		SH	Shellfish Protection
WQA Cap	Water Quality Account- Capital	SP	Spill Prevention
GF-F Cap	General Fund-Federal -Capital	SW	Stormwater & Combined Sewer Overflows
SRF Cap	State Water Pollution Control Revolving Fund	WP	Local Watershed Action
STCA Cap	State Toxics Control Account -Capital		
LTCA Cap	Local Toxics Control Account -Capital		
SBCA Cap	State Building Construction Acct -Cap		

Department of Agriculture

Agency: Agriculture

Budget code title: Pesticide Technical Assistance

Total proposed funds: \$74,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSDA-01	\$74,000	None	none	GF-S	Priority 2:4d	

Program description: The Compliance Branch enforces federal and state regulations relating to the storage, distribution, transportation, disposal and use of pesticides. The Compliance Branch provides effective technical outreach and hands-on assistance to pesticide users in addition too their enforcement activities.

Proviso funded activities: Provides ~0.5 FTE for WSDA compliance staff.

Expected Results: Educate residents to change behaviors to reduce toxic contamination. Agricultural users receive education on pesticide application to minimize adverse environmental impacts.

Department of Community, Trade and Economic Development

Agency: Community, Trade and Economic Development

Budget code title:

Total proposed funds:

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
CTED-01		126,336		GF-S	5.2.a, 5.2.f, 5.3, 5.5.a	MFH; SH; SW

Program description:

Funding to support Senior Planner position providing technical assistance and planning coordination with state, federal and local agencies and tribes relating to comprehensive planning under the GMA, critical areas planning, shoreline management and watershed planning.

Proviso funded activities: None.

Expected Results:

Provide technical assistance and guidance materials, including critical areas guidebook for small cities, when reviewing updates to comprehensive plans, critical areas ordinances, and shoreline master programs. Help cities and counties integrate plans and regulations with local watershed and salmon recovery plans and implementation actions. Technical assistance provided to 100% of cities and counties.

Monitor the percent of new development that occurs within Urban Growth Areas (UGAs) in Puget Sound counties required to report on buildable lands (King, Pierce, Snohomish, Kitsap, and Thurston). Target is an increase from the 2005 data of 86%. (CTED)

Conservation Commission

Agency: Conservation Commission

Budget code title: Puget Sound Technical Assistance

Total proposed funds: \$394,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSCC-01	394,000			GF-S	Priority 4 Strategy 3 b,c; P6, Strategy 1e	AG, EM, MFH, MR, NP, SH, WP

Program description: Funds the conservation district infrastructure necessary to provide technical assistance to Puget Sound private landowners to improve natural resources.

Proviso funded activities: Funds the conservation district infrastructure necessary to provide technical assistance to Puget Sound private landowners to improve natural resources.

Expected Results: In addition to water quality and habitat protection and community education, the Conservation Commission proposes to create an Office of Farmland Preservation to provide technical and financial assistance to local groups and governments for economic incentives to protect agricultural lands from development.

Agency: Conservation Commission

Agency Activity Title: Puget Sound Plan Implementation

Total proposed funds: \$4,853,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSCC-02			4,853,000	WQA	Priority 4: 1.a, 1.c, 3a, 3b, 3c, 3d Priority 5: 1a, 3a, 3f Priority 6: 1a, 1b, 1d	AG, EM, MFH, MR, NP, SH, WP

Program description: This package implements the recommendations of the Puget Sound Partnership, The Puget Sound Conservation and Recovery Plan, and the Shared Strategy for Puget Sound as they relate to improvement of habitat and water quality on privately owned lands.

Proviso funded activities: This program provides private landowners with technical, educational and project design assistance from the 12 Puget Sound Conservation districts to work with landowners proactively, voluntarily, and on a non-regulatory basis

with issues including but not limited to: air quality issues, erosion, pesticide use, manure, water quality/quantity issues from the impacts of livestock, crop production, forest health, wildlife habitat concerns, energy consumption, and potential urban-rural interface conflicts.

Expected Results: The Puget Sound districts have developed 5-year plans for meeting the needs of natural resources on privately owned lands. The Conservation Commission has received via a survey (attached) the specific needs for implementing water quality projects for the 2007-2009 biennium based on those plans. Categories of activities identified in the 12 districts are:

- Design & implementation of nearshore eelgrass and riparian restoration directly related to 303(d) listed streams and other degraded water bodies
- Facilitate participation of landowners in cooperative watershed and ecosystem planning activities;
- Provide funding for water quality projects and stream bank protection efforts;
- Cover crop programs to reduce sedimentation of waterways
- Technical assistance to county governments and other agencies to resolve water quality complains (referrals),
- Implement monitoring program to determine program effectiveness and provide for adaptive management
- Marine shoreline technical assistance, workshops, and site visits for as well as cost share for marine riparian zone and shoreline habitat enhancement projects
- Stream & wetland buffer enhancement project planning and technical assistance;
- Increase the flexibility to fill gaps and offer technical and financial assistance to cooperators not specifically covered by other programs;
- Technical and financial assistance to landowners in for the development of conservation plans;
- Riparian planting, instream structure, bank protection/stabilization & erosion control;
- Direct technical assistance to agricultural producers and shellfish producers;
- Education and newsletters
- Water quality sampling and monitoring
- TMDL mitigation

**THE FOLLOWING ARE STATEWIDE PROGRAMS THAT HAVE
BENEFIT TO PUGET SOUND**

Agency: Conservation Commission

Agency Activity Title: Livestock Nutrient Management Program TA & Cost Share

Total proposed funds:

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSCC-03				WQA	Priority 4: 1a, 1c; 3 a,b,c,d	AG, EM, MFH, MR, NP, SH, WP

Program description: The Livestock and Water Quality Program provides private landowners with technical and project design assistance from local conservation districts

10-3-06

Action Team – PS Council Review Draft

to voluntarily and proactively fix current, and prevent future, water quality problems resulting from the production of livestock.

Proviso Funded activities: None

Expected Results: Conservation district staff will assist livestock operations implementing best management practices. Livestock producers qualifying for it will receive technical assistance to develop plans that prevent water quality problems from occurring or correct existing problems. Additionally, this funding program is now accepted by the livestock industry and is getting more requests for assistance to local conservation districts.

Agency: Conservation Commission

Agency Activity Title: Conservation Reserve Enhancement Program TA/Cost Share

Total proposed funds:

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSCC-04				GF-S SBCA-Capital	Priority 4: 1a, 1c; 3 a,b,c,d Priority 5: 1a, 1f, 3 a Priority 6: 1a, 1d, 3e	AG, EM, MFH, MR, NP, SH, WP

Program description: Through successful voluntary landowner participation, the CREP program removes livestock and agricultural activities from the riparian area of salmon-bearing streams. The sites are planted with native trees and shrubs for a contract period of 10-15 years. This program improves salmon habitat and water quality without negative financial impacts to farmers and private landowners who have removed the area from farm production. This voluntary program is the result of a contractual agreement between the State of Washington and United States Department of Agriculture established in 1998. The U.S. Department of Agriculture through the Farm Service Agency provides up to 80% of the funds for this program, which greatly leverages state dollars spent on salmon habitat restoration and water quality improvements.

Proviso funded activities: None

Expected Results:

- 1) Sustain or improve fish habitat. CREP restores and protects riparian areas around salmonid streams, directly improving fish habitat and water quality.
- 2) Changing individual behavior and choices. CREP provides on the ground examples to the private landowner that restoring and protecting natural resources can be a mutually beneficial choice.
- 3) Improve, maintain, and restore water quality. CREP results in the restoration and protection of trees and shrubs along streams, which is one of the most important actions towards improving water quality. The trees and shrubs cool water temperatures (shade), increase oxygen levels (from decreasing temperatures), decrease sediment inputs, and filters out pollutants. In addition, CREP provides funds for farmers to fence the riparian

areas so that livestock cannot access the streams. This improves water quality by decreasing pollutants and sediment inputs.

4) Improve watershed health. Restoration and protection of riparian areas are vital to watershed health. Functional riparian zones improve many aspects of watershed health such as water temperatures, oxygen levels, pollutants, stream flow, sediment inputs, floodplain habitat, primary productivity, and instream habitat such as wood and pools for fish use.

5) Increased productivity of land and natural resources. CREP improves the productivity of the watershed by increasing the watershed health, increasing primary productivity, and addressing a key limiting factor to salmon production in our state.

Agency: Conservation Commission

Agency Activity Title: Small Acreage Planning, TA, & Cost Share

Total proposed funds:

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSCC-05				WQA	Priority 3: 7a and 7b Priority 4 Priority 5 Priority 6	AG, EM, MFH, MR, NP, SH, WP

Program description: This program provides private landowners with technical, educational and project design assistance from local conservation districts to work with small acreage landowners proactively, voluntarily, and on a non-regulatory basis with issues including but not limited to: air quality issues, erosion, pesticide use, manure, water quality/quantity issues from the impacts of livestock, crop production, forest health (complementing DNR's efforts with larger landowners), wildlife habitat concerns, energy consumption, and potential urban-rural interface conflicts. This package includes technical assistance as well as cost share assistance to landowners for implementing resource management plans

Proviso funded activities: None

Expected Results: The benefits of this program will be: protected natural resources (water quality and quantity, air quality, soil productivity, wildlife habitat, energy use, etc) in the urban-rural interface, which affects the entire watershed; improved perception and understanding of farming operations and value to urban-rural interface; greater support for federal assistance by previously un-reached audience; and reduced time that state and federal regulatory agencies have to focus on small operators, freeing time for greater violations.

10-3-06

Action Team – PS Council Review Draft

Agency: Conservation Commission

Agency Activity Title: Low Impact Development TA & Project Assistance

Total proposed funds:

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSCC-06				WQA	Priority 3 : 3h, 7a, 7b	AG, EM, MFH, MR, NP, SH, WP

Program description: This program provides private landowners with technical, educational and project design assistance from local conservation districts to work with implementing practices that reduce the need for and demand on conventional stormwater facilities. Federal and State regulatory requirements on rural communities with respect to stormwater have created an increased demand for these low-cost practices, the cumulative effect of which reduces the need for expensive, large-scale water removal and treatment projects. This package includes technical assistance as well as project implementation assistance to landowners for implementing low impact development practices

Proviso funded activities: None

Expected Results: It is likely that the LID grants to the conservation districts that identified needs will be entirely project-based, with a little room given to meet demand as it comes forward. We will track each grant as we always do to ensure that the deliverable elements of each grant are completed. Because this is a developing program, we will rely on the first year of the biennium as well as consultation with the districts and other agencies doing LID to develop performance measures that are meaningful. For now we will anticipate measuring projects committed to, and projects completed.

Department of Ecology

Agency: Ecology

Budget code title: Ambient Monitoring and Laboratory Certification

Total proposed funds: \$4,955,692

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-01	3,280,886		445,000	GF-S	Priority 3: 6a Role of Science 1-4	L, MR
	540,806			WQA	Role of Science 1-4	MR
	244,000			GF-F	Role of Science 1-4	MR
			445,000	WQPF	Priority 3: 6a Role of Science 1-4	MR

Program description: The agency has established a monitoring network to assess the current status of state waters, identify threatened or impaired waters, and evaluate changes/trends in water quality over time. This network includes sampling stations in rivers streams, and marine waters. The collected monitoring data are used for various purposes including assessing the health of waterbodies and tracking and assessing the effectiveness of water cleanup activities. The agency also certifies laboratories that conduct tests or submit data to the agency in order to help assure these laboratories have the demonstrated capability to provide accurate and defensible data.

Proviso funded activities: A significant part of the monitoring network was developed under the direction of Chapter 90.71 RCW, which ensured implementation of the Puget Sound Ambient Monitoring Program. Roughly 30% of the long-term freshwater monitoring network, 66% of the marine water network, 100% of sediment stations, and 33% of the flow network are located in Puget Sound and funded by proviso money.

Expected Results: Monitoring programs are best described under “The Role of Science in Puget Sound” in the 2007-09 Puget Sound Conservation and Recovery Plan. Ecology’s monitoring activities are included in the four “Proposed 2007-2009 results for the role of science”.

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Wastewater discharge permits

Total proposed funds: \$ 4,656,475

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-02	70,000			GF-S	Priority 2: 2d,e	OSS, M & I
		1,195,255		GF-F	Priority 2: 2i,j, k, l; 5d	OSS, M & I
	3,111,220		280,000	WQPF	Priority 2: 2i,j, k,l	OSS, M & I

Program description: The program regulates the discharge of pollutants to surface and ground waters by writing wastewater discharge permits for sewage treatment plants, stormwater, and industrial discharges. A permit is a rigorous set of limits, monitoring requirements, or management practices, usually specific to discharge, which is designed to ensure that a facility can meet both treatment and water quality standards.

Proviso funded activities: Activities funded by proviso include permit issuance and maintenance, technical assistance, site inspections, follow-up on permit violations, research, and training to locals and tribes.

Expected Results:

- Amount of reclaimed water in Puget Sound increases by 2 million gallons per day or by 10 percent during the course of the biennium.
- Cross-agency and external work groups are convened to develop reclaimed water standards. (Ecology, Health)
- 90 percent of NPDES permits for municipal sewage treatment plants have been issued within the past five years.
- 90 percent of NPDES permits for industrial facilities have been issued within the past five years.
- Baseline loading of mercury from individual, non-stormwater point dischargers are estimated.
- Permitted loadings of toxic contaminants from individual, non-stormwater point dischargers are estimated.
- Conduct a literature review of pharmaceuticals and personal care products (PPCPs) in ground and surface water, and wastewater treatment capabilities to assess impacts on human health and the environment.

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Watershed Planning

Total proposed funds: \$4,500,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-03		3,500,000		WQA	Priority 5: 3a, 3b, 3e	WP
			1,000,000	GF-S	Priority 5: 3a, 3b, 3e	WP

Program description: *Provide Technical and Financial Assistance for Local Watershed Planning.* In 1998, the Watershed Planning Act established a framework for state, local, and tribal governments to collaboratively create watershed plans that address water needs, reduce water pollution, and protect fish habitat. As the first watershed plans are coming to completion, emphasis is shifting to implementation of the water management strategies contained in the plans. Ecology supports watershed planning and implementation by providing staff support, technical and financial assistance to local groups and by adopting the county approved plans into rules. Ecology will also implement strategies for water resource management, as agreed to in the locally developed watershed plans.

Expected Results:

Integrate and implement local watershed, salmon recovery and other plans through regulatory and voluntary approaches.

Local watershed groups receive resources and guidance to integrate watershed, salmon recovery and other plans to carry out actions effectively, and to evaluate and adapt actions as they manage watersheds.

Whatcom County receives assistance to implement results of the Birch Bay-Drayton Harbor stormwater and watershed protection pilot project.

New instream flow or water management rules that protect freshwater salmon habitat are adopted in 2 watersheds.

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Nonpoint Source Pollution

Total proposed funds: \$ 2,866,741

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-04	1,110,000		140,000	GF-S	Priority 4: 2c, 6b HC: 4h, i	NP
		1,196,741		GF-F	Priority 4: 2c,g, 6b HC: 4h, i	NP
			280,000	STCA	Priority 4: 2c, 6B	NP
			140,000	WQPF	Priority 4: 2c, 6B	NP

Program description: Nonpoint source pollution (polluted runoff) is the leading cause of water pollution and poses a major health and economic threat. This program is responsible for managing the State's Water Quality Plan to Control Nonpoint Source Pollution. This includes coordination with various state agencies and other stakeholders to meet the plan and the expectations of the Environmental Protection Agency. The program provides on the ground technical assistance and strategy development for communities. It also administers a grant to provide funds to state agencies, local governments and communities to improve the management of non point source pollution problems. Types of nonpoint pollution include fecal coliform bacteria, elevated water temperature, pesticides, sediments, and nutrients. Sources of pollution include agriculture, forestry, urban and rural runoff, recreation, hydro modification, and loss of aquatic ecosystems.

Proviso funded activities: Activities funded by this proviso include providing education and outreach to locals and tribes, encouraging community action, providing funding and technical support to local decision makers, collaborating with other agencies, locals and tribes to carry out organized strategies to correct water quality problems relating to shellfish in threatened areas and prevent growing area downgrades; participating on advisory committees, administering grants, preparing and implementing water cleanup plans related to nonpoint pollution sources, conducting compliance and enforcement efforts, and participating in shellfish closure and response planning. (Note: In the 05-07 budget, the Ecology Shellfish budget code, DOE-05, was rolled into this budget code)

Expected Results:

Ecology completes a total of 8 Water Quality Improvement Reports focused on dissolved oxygen (2) and fecal coliform (6).

The interagency Memorandum of Agreement guiding state agency responses to shellfish closures and threatened shellfish areas is updated. (PSAT, Health, Ecology, WSDA)

Additional monitoring data is collected and work is begun on a dissolved oxygen and nutrient model for south Puget Sound.

10-3-06

Action Team – PS Council Review Draft

Fecal coliform bacteria concentrations in water draining to Hood Canal from the Skokomish River/Annas Bay watershed meet water quality standards.

Fecal coliform bacteria loading from the Union River meet water quality standards and Water Quality Improvement Plan targets

Agency: Ecology

Budget code title: Stormwater Program

Total proposed funds: \$ 1,738,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-06	1,143,000			STCA	Priority 3: 1a-e, 5a, 6a	SW
		315,000	280,000	WQPF	Priority 3: 1a-e, 5a, 6a	SW

Program description: The program prepares tools, renders assistance and provides compliance pathways for people to control the quantity and quality of stormwater runoff from development and industrial activities. The program is currently providing training and assistance to communities and industries for the Western Washington Stormwater Manual and is actively developing an Eastern Washington Stormwater Manual. The program is also re-issuing stormwater permits to Washington's largest cities and counties (phase I jurisdictions) and will develop a phase II permit program that will require stormwater management programs for areas with populations of 10,000 or more.

Proviso funded activities: Activities funded by this proviso include technical assistance and training to locals and tribes; developing and maintaining technical standards; issuing municipal, industrial and construction National Pollutant Discharge Elimination System (NPDES) permits; conducting inspections at stormwater facilities; researching and sharing stormwater management technologies.

Expected Results:

Ecology will report on the number and percent of NPDES municipal general permittees meeting the compliance schedule.

All NPDES municipal general permittees receive technical assistance to help them comply with the permits.

The NPDES general industrial stormwater permit is reissued by September 2007.

Ecology staff carry out an average of one stormwater inspection every two years at permitted construction sites.

Ecology staff carry out an average of one stormwater inspection every two years at permitted industrial facilities.

10-3-06

Action Team – PS Council Review Draft

The overall number of CSO events and total volume of overflows decreases, taking into account fluctuations in precipitation.

A comprehensive monitoring program is developed to better understand the impacts of stormwater runoff on Puget Sound and the effectiveness of management practices.

Agency: Ecology

Budget code title: Contaminated sediments, dredging and various Puget Sound cleanups

Total proposed funds: \$42,378,887

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-07	\$1,181,000			STCA	Priority 1A, C	S
		\$32,704,000	\$9,674,887	LTCA	Priority 1A, C	S

Program description:

Clean up the worst contaminated sites first (upland and aquatic).

Ecology protects public health and natural resources by cleaning up and managing contaminated upland and aquatic sites under the Model Toxic Control Act Cleanup Regulation and Sediment Management Standards. This includes preventing the creation of new sites by coordinating with other regulatory programs and agencies to control sources of contamination and working with local governments and industry to reduce releases of toxic contamination into the environment. The cleanup of these sites protects public health, reduces contamination uptake into the food web, and promotes local economic development by making land available for new industries and other beneficial uses.

Ecology uses these funds for multiple activities that support the identification, characterization and cleanup of contaminated sites in Puget Sound. In addition, it supports work to prevent the recontamination of cleaned up sites or creation of new sites in Puget Sound by controlling sources from adjacent uplands and permitted discharges. Activities include working cooperatively with other regulatory programs and agencies as well as local governments and industry to accomplish cleanup. Funds also support Ecology's participation in the cooperative state and federal Dredged Material Management Program, which manages open water disposal sites for clean dredged material.

Expected Results:

This program links to Puget Sound Priority 1, "Clean up contaminated sites and sediments",

This program will ultimately result in the most highly contaminated sites being cleaned up. Public and environmental health will be protected, and contaminated sites will be ready for redevelopment and job creation.

10-3-06

Action Team – PS Council Review Draft

The most highly contaminated sites are cleaned up and managed to minimize public and environmental health impacts. Remediated sites are ready for redevelopment or other beneficial use.

- The total number of upland and aquatic sites within one half mile of the Puget Sound shoreline that begin cleanup activities under the authority of Ecology increases by 50 sites during the 07-09 biennium.
- 5,000 acres are evaluated to assess whether cleanup is needed and new sites entered into Ecology's Integrated Site Information System for reporting progress and performance.

This program contributes the Priorities of Government result of Improve the quality of Washington's natural resources. The most highly contaminated sites are cleaned up, public and environmental health is protected, and sites are ready for redevelopment and job creation. The goal is to increase the number of sites cleaned up by 3 percent annually, increase the number of sites with cleanup actions in progress, and decrease the number of sites that are awaiting cleanup.

Agency: Ecology

Budget code title: Wetland protection and restoration

Total proposed funds: \$1,992,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-08	362,000		1,541,600	GF-S	Priority 5: 1b, 2c, 2d, 2e, 3c	MFH
	88,400			GF-F	Priority 5: 1b, 2c, 2d, 2e, 3c	MFH

Program description: *Protect Restore and Manage Wetlands.* The agency has the lead responsibility in implementing the State Water Pollution Control Act which requires the protection of wetlands. It provides technical assistance to local governments, helping them implement requirements in the Shoreline Management Act and Growth Management Act. Staff also provides technical assistance to non-government entities on wetlands conservation and stewardship programs. The agency provides leadership on wetlands issues, coordinating statewide policy issues and developing new approaches for managing and restoring wetlands. Properly functioning wetlands protect water quality, reduce flooding, provide aquifer recharge for drinking water and other uses, and provide critical habitat for fish and wildlife. The agency also issues water quality certifications for water-related (including wetlands) projects to protect water quality, sediment quality, and fish and shellfish habitat.

Proviso funded activities:

- A landscape-scale computer-based tool for assessing projects and sub-basin areas is developed to assist local governments in protecting shorelines and other critical areas that provide important ecological functions.
- Local governments receive technical information and assistance with comprehensive planning decisions and permits related to wetlands.

10-3-06

Action Team – PS Council Review Draft

- Citizens receive technical information and assistance on wetlands restoration and stewardship in the context of voluntary actions, as well as regulatory.

Expected Results:

Preserve functioning habitats through a variety of conservation tools.

Increase by 350 acres the ecologically important land that is permanently protected and properly managed. This will be accomplished through DNR aquatic reserves, WDFW land acquisition (fee simple and conservation easements), and land acquisitions funded by grants administered by the IAC and the Department of Ecology. (PSAT will compile reports)

Help effectively update and implement land use regulations that protect shorelines and critical areas, and increase the funding and assistance for additional cities and counties to update SMPs with more protective programs.

Local governments receive technical assistance and inventory data to update critical areas maps as new science becomes available for effective critical areas ordinance implementation. (PSAT, WDFW, Ecology, CTED, DNR)

Guidance on implementing wetland management is provided at 25 trainings and presentations, and 80% of participants in training sessions rate the training as useful.

2 wetland banks of a total 400 acres are established with private parties and local governments and receive guidance on their appropriate use to ensure that this innovative method effectively mitigates unavoidable impacts from new development. (Ecology, other agencies)

Integrate and implement local watershed, salmon recovery and other plans through regulatory and voluntary approaches.

Local governments receive information and technical assistance on landscape analysis tools to integrate land use, natural resource, and other information appropriate to local planning needs and budgets and 3 local governments use landscape analysis tools to update local land use plans or regulations. (Ecology, WDFW, WSDOT)

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Oil spill prevention and response

Total proposed funds: \$12,681,000

Budget Code	Proviso Continuing Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities & Results	PS Plan Program
DOE-09		2,876,000		VRA	Priority 2: Strategy 3a, ,c,e	SP
	705,000	4,600,000		OSPA	Priority 2: Strategy 3a,b,c,d,e,f; Priority 3: Strategy 3c; and Priority 7: Strategy g	SP
		4,500,000		STCA	Priority 2: Strategy 3a,c,e; Priority 3: and Strategy 4e	SP

Program description:

Puget Sound is vulnerable to spills from large marine oil handling facilities, maritime vessel traffic, oil transfer operations, and land transportation related sources. The Spill Prevention, Preparedness, and Response Program will continue to:

- Prevent oil spills by increasing industry attention on human and organizational factors;
- Prepare for aggressive response to oil and hazardous material incidents;
- Rapidly respond to and clean up oil and hazardous material spills; and
- Restore public natural resources damaged by oil spills.

Proviso funded activities:

The Oil Spill Prevention Account (OSPA) supports a team of professional engineers and mariners that complete the following activities in Puget Sound:

- Inspection of large commercial vessels to verify compliance with international, federal, and state vessel safety and spill prevention requirements;
- Inspection of vessel fuel transfer (bunkering and lightering) operations;
- Inspection of facility oil transfer operations;
- Review and approval of large marine facility spill prevention plans; and
- Other related compliance activities.

Expected Results:

Oil Spill Prevention:

Vessel and facility inspections are conducted to verify compliance with state, federal and international safety requirements. Oil transfer operations that occur over water are inspected to verify that state pre-booming requirements are implemented. Best Achievable Protection (BAP) for facilities and vessels is promoted. Causes of major spills are thoroughly investigated producing recommendations with broad influence. Intentional waste oil discharges from vessels is reduced. Vessel and facility oil transfer rules are adopted during the fall of 2006. A dedicated rescue tug is seasonally stationed

10-3-06

Action Team – PS Council Review Draft

at the entrance to the Strait of Juan de Fuca to provide timely emergency towing assistance to large disable vessels until June 30, 2008.

Oil Spill Preparedness:

The community's ability to contain oil spills before they spread is significantly improved. Contingency plan holders are better prepared to quickly and thoroughly remove spills. Oil spill contingency plans are reviewed and approved. Oil spill contingency plans incorporate information from drills and spills. Spill response management is significantly improved through the use of the agency's Incident Management Assist Team (IMAT). The oil spill contingency plan rule will be amended and adopted during the fall of 2006.

Oil and Hazardous Material Spill Response:

Oil & hazardous material spills are rapidly responded to and cleaned-up, 24 hours/day from 6 field offices. Two spill responders will be positioned in the Bellingham field office.

Restore Natural Resources Damaged by Oil Spills:

Natural Resource Damage Assessments are issued on all oil spills where 25 or more gallons reaches surface waters. Funds from Natural Resource Damages are applied to restore and protect wildlife habitat.

Agency: Ecology

Budget code title: Aquatic nuisance species

Total proposed funds: \$ 116,848

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-10	70,000			STCA	Priority 6: 5c-d	AQ
		46,848		FAWA	Priority 6: 5c-d	AQ

Program description: The program coordinates noxious weed and invasive aquatic animal permitting issues with regional staff and the public. It also manages the Department of Agriculture general permit for noxious weed control. The program coordinates with agencies and local government on aquatic herbicide use for noxious weed control activities. Also, a grant program is administered to provide funds to local governments to prevent, remove, or manage invasive freshwater aquatic weeds from watersheds associated with the Puget Sound basin.

Proviso funded activities: Activities funded by this proviso include permit development, providing technical assistance, administering grants, developing educational materials, training for locals and tribes, reviewing and approving integrated vegetation management plan for noxious emergent vegetation, researching and developing management strategies for various chemicals.

Expected Results:

Develop and implement a response strategy for non-native *Styela clava* (club tunicate) and *Ciona savignyi* (transparent tunicate) in Puget Sound and Hood Canal. (WDFW, PSAT, Ecology, DNR)

Develop and implement a strategy to raise public awareness of invasive species as a significant environmental threat to Puget Sound. (ANS Committee: WDFW, PSAT, Ecology, DNR, WSDA, State Parks, IAC)

Agency: Ecology

Budget code title: Shoreline Management Act

Total proposed funds: \$9,815,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-11		4,818,000	4,679,000	GF-S	Priority 5: 2a, 2b, 2f, 2g, 2h, 6e, 6f Priority 6: 3a, 3c, 3d Priority 7: d	MFH
		318,000		GF-F	Priority 5: 2a, 2b, 2f, 2g, 2h, 6e, 6f Priority 6: 3a, 3c, 3d Priority 7: d	MFH

100% of the funding is for Puget Sound.

Program description: *Protect and Manage Shorelines in Partnership with Local Governments.* The Shoreline Management Act establishes a cooperative program between local and state governments, in which local governments develop and administer local Shoreline Master Programs and Ecology provides support and oversight. The agency is involved in shoreline management in four primary ways: developing guidelines for local shoreline programs; providing technical assistance to local governments and applicants on shoreline planning and permitting activities; reviewing and approving amendments to local shoreline master programs; and reviewing shoreline permits to ensure resource protection and implementation of the Shoreline Management Act.

Ecology works with local governments on permit compliance by responding to public inquiries and complaints, making field visits, providing compliance-related technical assistance, and issuing notices of correction, orders, and penalties. Properly managed shorelines provide habitat for fish and wildlife, minimize flooding and property damage, and provide land use certainty to local landowners.

Protections for at-risk species are incorporated into Shoreline Master Program updates in 10 jurisdictions. (PSAT, Ecology)

Expected Results:

Help effectively update and implement land use regulations that protect shorelines and critical areas, and increase the funding and assistance for additional cities and counties to update SMPs with more protective programs.

Develop a network of sustainable resources to support Soundwide public outreach and landowner education and stewardship.

Improve restoration projects by applying the best scientific principles and a process-based approach.

Agency: Ecology

Budget code title: Northwest Straits Commission

Total proposed funds: \$3,200,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-12		\$3,200,000		GF-F	Priority 1 S1.d Priority 5 S6.c Priority 6 S1.f Priority 7	EM MFH EPI

Program description: *Provide Technical Training, Education, and Research through Padilla Bay Estuarine Reserve.* The Padilla Bay National Estuarine Research Reserve is one of 25 national reserves established to protect estuaries for research and education. The Padilla Bay Reserve in Skagit County conducts a broad array of public education programs, technical and professional training, coastal restoration, and scientific research and monitoring. The Reserve, managed in partnership with the National Oceanic and Atmospheric Administration (NOAA), includes over 11,000 acres of tidelands and uplands, the Breazeale Interpretive Center, a research laboratory, residential quarters, trails, and support facilities. The Reserve also provides funding and technical support to local Marine Resource Committees as part of the Northwest Straits Initiative and administers the Northwest Straits Commission as established by Congress in 1998.

The Northwest Straits Commission is housed within the Padilla Bay National Estuarine Research Reserve. Its purpose is to halt the degradation of marine resources in the Northwest Straits. The Northwest Straits are from the Strait of Juan de Fuca and northern Puget Sound to the Canadian border. The Northwest Straits Marine Conservation Initiative provides a way for local, tribal, state and community representatives to work together to protect vital marine resources. Halting the degradation of marine resources in the Northwest Straits will require the efforts of many agencies, organizations and individuals. The Northwest Straits Marine Conservation Initiative draws strength from citizen-driven efforts to garner community support for measures to protect and restore the Straits' salmon, shellfish, bottomfish and other vital resources, plus the habitats they need to survive.

Expected Results:

An inventory of creosote logs is conducted on Puget Sound beaches and a clean-up program is implemented. (NWSC, NOAA, DNR, The Nature Conservancy)

400 Beach Watcher volunteers are trained and Shore Stewards increase membership in the north Sound by 1,000 members. (WSU Extension—may require additional funding, Sea Grant, NWSC)

Derelict fishing nets derelict crab and/or shrimp pots are removed from Puget Sound to uncover marine habitats and prevent further harm to marine life. (NWSC, NOAA, WDFW, DNR)

Agency: Ecology

Budget code title: Persistent Bioaccumulative Toxin (PBT) Strategy

Total proposed funds: \$1,454,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-13		\$1,454,000		STCA	2.1.c, 2.1.d,	

Program description:

The PBT Strategy seeks to reduce human exposure to PBTs. The main activity is developing Chemical Action Plans (CAP) to phase out PBTs or prevent them from affecting humans. Steps include monitoring of water quality and toxins in fish, finding safe alternatives, and implementing protective policies. The strategy is statewide, and while it benefits Puget Sound, it is not exclusive to Puget Sound.

Expected Results:

The PBT Strategy addresses one chemical at a time. Each Chemical Action Plan has its own results, but the goal is to reduce PBT use and exposure. Priority 2, preventing toxic contamination, is supported by either eliminating the use of a PBT or preventing its escape into the environment.

Agency: Ecology

Budget code title: Technical Resources for Engineering Efficiency (TREE)

Total proposed funds: \$25,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-14	0	12,500	0	HWAA	Priority 2: C2	M&I
	0	12,500	0	STCA		

Program description: The Technical Resources for Engineering Efficiency (TREE) team uses engineering analysis to reduce environmental impacts, facility cost, and regulatory requirements. Technical assistance is provided to the facility at no cost. Several recent projects have resulted in hundreds of thousands of gallons per day in

10-3-06

Action Team – PS Council Review Draft

water use reduction and several thousand dollars in savings for the company. The team is headed by the Hazardous Waste and Toxics Reduction Program and the Water Resources Program with engineers from several programs participating. An annual accomplishments report is published.

Expected Results: Ecology's Technical Resources for Engineering Efficiency (TREE) program will complete an evaluation that suggests quantifiable water, waste, and energy reductions for one industrial facility in the Puget Sound basin during the biennium.

Agency: Ecology

Budget code title: Hood Canal Corrective Actions

Total proposed funds: \$ 3,562,352

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-15	1,000,000			WQA-Cap	Priority 4 Special Focus Area- Hood Canal - 1a	M & I NP
	460,000			WQA- Cap	Priority 4 Special Focus Area- Hood Canal – 1c	OSS
	300,000			LTCA	Priority 4- Special Focus Area Hood Canal – 1e	SW
	802,352			SRF-Cap	Priority 4 Special Focus Area- Hood Canal – 1b	M & I
	1,000,000			SRF Cap	Priority 4 Special Focus Area- Hood Canal – 1d	OSS

Program description: The 2005 and 2006 state legislature approved this funding for Ecology to administer through its water quality program. The water quality program manages a variety of programs to improve water quality through prevention, education, monitoring, planning, permitting, enforcement, and financial assistance. Financial assistance to local governments supports water quality prevention and cleanup activities.

Proviso funded activities: The funded activities provide support for local governments to address water quality problems identified in the *Hood Canal Preliminary Assessment and Corrective Action* plan (2004) and coordinated state, local and federal efforts as human contributors to the Hood Canal low dissolved oxygen problem. Ecology water quality staff will administer the follow funds:

10-3-06

Action Team – PS Council Review Draft

- Water Quality Account (Capital) - Centennial Clean Water Fund proviso for \$1,000,000 for a design to improve sewage management in the area from Skokomish to Hoodspport.
- \$802,352 in State Revolving low-interest loan funds to supplement an existing FY2003 loan to Mason County to complete a sewer design for the Belfair area.
- \$460,000 to pass through to Jefferson (\$70,000), Mason (\$320,000) and Kitsap (\$70,000) counties to identify failing onsite sewage disposal systems.
- State Revolving Fund (SRF) low-interest loan funds of \$1,000,000 through local health jurisdictions to fix failing onsite sewage systems identified in the surveys.
- \$300,000 to pass through to Mason County to complete stormwater management plans for Hoodspport and Belfair.
- \$1,500,000 from the Water Quality Account for on-site repair and replacement to be used in conjunction with the SRF loan funding, divided as follows, up to \$1 million in grants to financially distressed homeowners, and up to \$500,000 in grants to assist local governments with planning and implementation of the loan program.

Expected Results:

Assuming that Mason County stays on schedule to complete the facilities plan including engineering and design and required permits, construction begins for a sewage treatment system(s) in Skokomish-Hoodspport corridor (Ecology manages contract for facilities design with Mason County; Parks coordinates wastewater facilities plans with wastewater treatment plans in the adjacent Potlatch area as appropriate.)

Assuming that Mason County completes necessary facility plans, processes and permits, construction begins for a sewage treatment system for the Belfair Urban Growth Area and adjacent service area. (Ecology contract for facilities design with Mason County; CTED administers funds for construction; Parks coordinates wastewater facilities at Belfair State Park with the Belfair system as appropriate.)

Shoreline surveys in Mason, Jefferson and Kitsap counties are completed, failing systems are identified and addressed. (Ecology contract with the counties, PSAT will track repairs.)

Loan programs are in place in Mason, Jefferson and Kitsap counties to fix failing onsite sewage systems. (Ecology contract with other entities)

Agency: Ecology**Budget code title:** Puget Sound Cleanup and Restoration - Upland**Total proposed funds:** \$4,705,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-16		\$4,000,000	\$705,000	STCA	Priority 1a, c	S

Program description:

Clean up the worst contaminated sites first in upland areas. For upland sites, resources are first focused on cleaning up contaminated sites that pose the greatest risk to public health and the environment. These include sites where contamination threatens drinking water, exists in a large quantity, is very toxic, may affect a water body, or may affect people that are living, working, or recreating near the site. Contamination may be in the soil, sediments, underground water, air, drinking water, and/or surface water.

Expected Results:

This program links to Puget Sound Priority 1, “Clean up contaminated sites and sediments”,

This program will ultimately result in the most highly contaminated sites being cleaned up.

Public and environmental health will be protected, and contaminated sites will be ready for redevelopment and job creation.

The most highly contaminated sites are cleaned up and managed to minimize public and environmental health impacts. Remediated sites are ready for redevelopment or other beneficial use.

- The total number of upland and aquatic sites within one half mile of the Puget Sound shoreline that begin cleanup activities under the authority of Ecology increases by 50 sites during the 07-09 biennium.

This program contributes the Priorities of Government result of Improve the quality of Washington’s natural resources. The most highly contaminated sites are cleaned up, public and environmental health is protected, and sites are ready for redevelopment and job creation. The goal is to increase the number of sites cleaned up by 3 percent annually, increase the number of sites with cleanup actions in progress, and decrease the number of sites that are awaiting cleanup

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Voluntary cleanup program within 0.5 miles of Puget Sound

Total proposed funds: \$730,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-17		\$730,000		STCA	Priority 1a, c	S

Program description:

Services to Site Owners that Volunteer to Clean Up their Contaminated Sites. The agency provides services to site owners or operators who initiate clean-up of their contaminated sites. Voluntary clean-ups can be conducted in a variety of ways: completely independent of the agency; independent with some agency assistance or review; or with agency oversight under a signed legal agreement (an agreed order or consent decree). They may be done through consultations, prepayment agreements, prospective purchaser agreements, and brownfields redevelopment. The voluntary clean-up program minimizes the need for public funding used for such clean-up and promotes local economic development through new industries and other beneficial uses of cleaned properties.

Expected Results:

This program links to Puget Sound Priority 1, “Clean up contaminated sites and sediments”,

This program will ultimately result in the most highly contaminated sites being cleaned up. Public and environmental health will be protected, and contaminated sites will be ready for redevelopment and job creation.

This program contributes to Ecology’s goal of beginning 50 new cleanup actions known toxics-contaminated sites that are within one half mile of the Puget Sound shoreline.

This program contributes the Priorities of Government result of Improve the quality of Washington’s natural resources. The most highly contaminated sites are cleaned up, public and environmental health is protected, and sites are ready for redevelopment and job creation. The goal is to increase the number of sites cleaned up by 3 percent annually, increase the number of sites with cleanup actions in progress, and decrease the number of sites that are awaiting cleanup.

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Puget Sound Cleanup and Restoration - Aquatic

Total proposed funds: \$5,905,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-18		\$5,000,000	\$905,000	STCA	Priority 1a, c	S

Program description:

Clean up the worst contaminated sites first in aquatic areas. The clean up of contaminated aquatic sediments reduces toxic contamination in food fish and protects the aquatic environment. The clean up of these sites protects public health, safeguards the environment, and promotes local economic development by making land available for new industries and other beneficial uses.

Expected Results:

This program links to Priority 1, “Clean up contaminated sites and sediments”, This program will ultimately result in the most highly contaminated sites being cleaned up. Public and environmental health will be protected, and contaminated sites will be ready for redevelopment and job creation.

This program contributes to Ecology’s goal of beginning 50 new cleanup actions known toxics-contaminated sites that are within one half mile of the Puget Sound shoreline.

This program contributes the Priorities of Government result of Improve the quality of Washington’s natural resources. The most highly contaminated sites are cleaned up, public and environmental health is protected, and sites are ready for redevelopment and job creation. The goal is to increase the number of sites cleaned up by 3 percent annually, increase the number of sites with cleanup actions in progress, and decrease the number of sites that are awaiting cleanup.

Agency: Ecology

Budget code title: Local Innovative Stormwater Projects

Total proposed funds: \$10,250,000

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-19	2,500,000		7,750,000	STCA/SBCA -Cap	Priority 3 – 3b Stormwater	SW

Program description: The 2006 state legislature approved funding for Ecology to administer through its water quality program to support innovative, low –impact development stormwater projects. The water quality program manages a variety of programs to improve water quality through prevention, education, monitoring, planning, permitting, enforcement, and financial assistance. Financial assistance to local governments.

Proviso funded activities: 2006 funds and additional requested funds to pass through to local governments in the Puget Sound basin to fund innovative, low impact

10-3-06

Action Team – PS Council Review Draft

development (LID) stormwater management projects. At workshops for the first round of funding, attendees estimated financial LID project needs of approximately \$10 million. Many others who were not at these workshops have also shown interest in the program. The \$7.75 million request will provide resources to help address this critical water quality need.

Expected Results:

LID projects funded under the LID grants program are tracked and reports on the projects are available. (Ecology will track projects and PSAT will analyze and disseminate information on them.)

Agency: Ecology

Budget code title: Helping Homeowners Save the Sound (onsite sewage systems)

Total proposed funds:

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE-20	1,500,000		3,000,000	WQA –Cap	Priority 4 Strategy 4c	OSS

Program description: The 2006 state legislature approved funding for Ecology to administer through its water quality program to repair and replace failing on-site septic systems to restore and protect water quality and designated uses in the Puget Sound basin. The water quality program manages a variety of programs to improve water quality through prevention, education, monitoring, planning, permitting, enforcement, and financial assistance. Financial assistance to local governments.

Proviso funded activities: to provide grant money to local governments and tribes, in conjunction with loans from the Water Pollution Control State Revolving Fund, to replace failing on-site septic systems in the Puget Sound basin.

Expected Results:

Loan programs are in place in Puget Sound counties to fix failing onsite sewage systems. (Ecology manages contracts with local entities.)

10-3-06

Action Team – PS Council Review Draft

Agency: Ecology

Budget code title: Reduce Health Risks from Toxic Diesel Pollution

Total proposed funds: \$13,400,000*

Budget Code	Proviso Funds	Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOE - Statewide		\$4,400,000		Local Toxics Control Account 174-1	Priority 2, strategy 2c	
		\$4,500,000	\$4,500,000	Air Pollution Control Account 216-1	Same as above	

Program description: Diesel pollution causes more disease and death than any other air pollutant in Washington. Health care costs and losses in worker productivity attributable to diesel exposure are estimated to cost Washington citizens, businesses and government between \$100 million and \$1.6 billion each year. Funding is requested to continue installation of pollution control devices on eligible, publicly-owned or operated diesel vehicles, equipment and school buses to reduce citizen exposure to highly toxic air pollutants. The 07-09 budget request seeks \$8.5 million of the amount needed to complete this work. A final \$4.5 million will be requested in the 09-11 biennium.

Expected Results: Complete the statewide effort to retrofit all eligible diesel engines owned and operated by school districts, local governments and state agencies with pollution control equipment that will reduce emissions of toxic diesel soot (including school buses, transit buses, garbage trucks, highway/road maintenance equipment, construction equipment, etc.).

*Statewide number – Not included in Puget Sound plan budget.

Department of Fish and Wildlife

Agency: Fish and Wildlife

Budget code title: Puget Sound Technical Assistance for Nearshore & Estuarine Habitat

Total proposed funds: \$150,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-01	\$150,000			GF-S	Priority 5; Strategy 2,3,5&6; Results 2 e,f, 5c, 6b Priority 6; Strategy 1,2,3; Results 1a,b,c; 2a,b	MFH

Program description: Provides lead and coordination for technical assistance for major Puget Sound marine development projects. Ensures that marine and nearshore habitat for fish and associated process attributes are protected and maintained through agency representation, interagency coordination, technical assistance, policy application and regulatory recommendations during early planning, implementation, and follow-through for complex marine projects (e.g. public ports, WSDOT ferry terminals, waterfront development, major marinas, etc.).

Provides agency representation and coordinates regional technical support for protection of fish and habitat during Federal (CERCLA) and state (MTCA) cleanup actions of contaminated marine sediments. Participates as state co-trustee for Natural Resource Damage Assessment (NRDA) in Puget Sound.

Proviso funded activities: Provides technical expertise and policy application for issues affecting Puget Sound marine and nearshore habitat. Disseminates and applies current monitoring and research findings to facilitate scientifically based decision-making and resource protection in review and permitting of development projects and associated mitigation. Facilitates external coordination with other state and federal agencies, tribes, and ports to enhance cooperation and effectiveness in protecting, enhancing, and restoring marine and nearshore habitats. Coordinates staff technical support to facilitate consistency and use of best available science. Provides support for Puget Sound marine-related GMA concerns.

Expected Results: Coordinated agency approaches to remediation of contaminated sediments, including protection of fish during remedial activities and restoration of important nearshore habitats following remediation. Reduced use of treated wood products in Puget Sound through continued education, recommendation of alternative materials use, and support of removal of existing treated materials. Protection of shorelines and other critical areas will continue through coordination and availability of technical assistance to shoreline owners, developers, and public ports, in addition to interagency and tribal communication on major marine projects, including restoration.

Enhanced protection of eelgrass and other marine vegetation through agency representation in the effort to develop a statewide sea grass management and conservation plan. Improved protection of shorelines through continued education of local government staff, developers, and citizens to increase their awareness and appreciation of shoreline processes, habitat functions, and ecological relationships important to shoreline health. Technical support for implementation of projects that restore natural habitat forming processes, increase the area of tidally influenced estuarine wetlands, and improve riparian conditions. Improved consideration and implementation of process-based restoration objectives through agency representation in the review of large-scale mitigation projects, Natural Resource Damage Assessment decision documents, and waterfront redevelopment projects in Puget Sound.

Agency: Fish and Wildlife

Budget code title: Puget Sound Technical Field Assistance for Nearshore & Estuarine Habitat

Total proposed funds: \$690,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-02	\$690,000			GF-S	Priority 5; Strategy 2,3,5& 6; Results 2 e,f, 5c, 6b Priority 6; Strategy 1,2,3; Results 1a,b,c; 2a,b	MFH

Program description: These five (5) positions serve as part of the Watershed Stewardship Team and provide technical assistance in Puget Sound to: 1) local governments, 2) local salmonid recovery groups (Lead Entities, Regional Fishery Enhancement Groups), 3) watershed groups, 4) environmental and neighborhood organizations, and 4) the interested public regarding salmonid protection and restoration projects. Working with these local groups they assist in the development of estuary, nearshore, freshwater and marine shoreline habitat protection and restoration projects, seek funding for projects, and participate in watershed planning and review of shoreline master programs.

Proviso funded activities: Provide technical assistance within Puget Sound watersheds to local governments, salmonid recovery groups and the interested public to conserve, protect, and restore freshwater, marine, and nearshore habitats for salmon, forage fish, and other species that utilize these areas. Assist Lead Entities with evaluation, design, and submittal of proposed habitat restoration projects to the SRF Board, ALEA, and IAC for funding. In addition, WDFW Watershed Stewards coordinate with agency technical experts to address specific Lead Entity needs for salmon recovery planning, forage fish spawning habitat protection, restoration of riverine and nearshore processes, and other associated priorities.

Expected Results: Continued funding and implementation of scientifically sound habitat conservation and restoration projects including freshwater, marine, nearshore and riparian areas. On-going technical assistance to local governments, Lead Entities,

and the interested public facilitating understanding and use of current scientific principles in the protection, restoration and regulation of important habitats. An increased focus on addressing habitat forming processes during project formulation, design and implementation. Continued coordination within WDFW and between natural resource agencies, tribes, environmental organizations, and interested citizens to maximize opportunities and achieve broad support for conservation and restoration projects.

Agency: Fish and Wildlife

Budget code title: Forage Fish Spawning Habitat Inventory Project

Total proposed funds: \$350,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-03	\$350,000			GF-S	Priority 5, Strategy 1, 2, and 3; Priority 7 Marine Fish a and b	MFH

Program Description: Forage fish (surf smelt, sand lance, and herring) spawning habitats are vulnerable to degradation from human shoreline development activities. Forage fish spawning surveys in Puget Sound are nearly complete. Unfortunately, several gaps in geographical coverage remain that this project will finish with one additional year of sampling. Inventories of Puget Sound forage fish spawning beaches will be complete in 2007. Additionally, in cooperation with USGS, we will 1) begin studies at fine scales (e.g., Quartermaster Harbor) to understand how shoreline modification affects beach suitability for spawning forage fish, and 2) develop Puget Sound wide predictive models using WDFW forage fish database and LANDSAT imagery to relate urbanization to forage fish spawning beach quantity and quantity.

Proviso funded activities: Complete surveys of potential forage fish spawning sites within the Puget Sound basin will be included in our comprehensive and publicly available GIS database. We will begin comprehensive analyses of the newly completed forage fish database (with 30 years of data). Additionally, we will begin to produce modeled results of forage fish habitat in the context of a routed GIS Puget Sound shoreline and satellite imagery to examine predictive models that include shoreline development. The project would also entail public out-reach/education efforts.

Expected Results: Increased conservation and protection of nearshore habitats that support forage fish spawning through improved awareness of spawning locations, access to survey information, evaluation of un-surveyed sites, transfer of research results to others agencies, tribes, local governments and citizens, and predictive models relating coarse scale human activities (via Landsat) to occurrence and quality of spawning beaches. Modeling results will be used to develop strategies to conserve the most important forage fish spawning beaches in Puget Sound as part of Shoreline Master programs, and through the Puget Sound Partnership activities.

Agency: Fish and Wildlife**Budget Code Title:** Aquatic Nuisance Species and Ballast Water Programs**Total proposed funds:** \$170,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-04	\$170,000			GF-S	Priority 6:5b,c,d. Priority 5: 4a,b,c,f	ANS

Program description:

This program participates in state, regional, national and international efforts to manage invasive species through outreach education, regulatory prevention, and control measures. The program implements and enforces the state ballast water law (RCW 77.120) by reviewing vessel reporting data, evaluating ballast exchange compliance, and reviewing ballast water treatment technologies for possible approved use in Washington State waters. Staff boards vessels and takes water samples for analysis by UW, USGS, and EPA. Results of the analysis are used to encourage vessel operators to improve management practices. The program oversees volunteer monitoring, manages control efforts for several species, and does outreach and education to a broad variety of audiences.

Proviso funded activities:

The funding will allow the program to continue overseeing the implementation and enforcement of ballast water regulations to prevent the introduction of new aquatic nuisance species in Puget Sound. Monitoring and control efforts will continue and be expanded, and response strategies will be developed and implemented for non-native invasive species that are present in State waters.

Expected Results:

Vessels entering state waters will be monitored for compliance with reporting regulations and at least 5% of them will be boarded in coordination with the U.S. Coast Guard and the Ecology Spills Program, and samples of the ballast taken for analysis. Results of the analysis will be used to encourage vessel operators to improve their management practices. Program staff will continue to work with ballast water treatment vendors (as required by law) to identify effective ballast water treatment technologies that are efficient and cost effective, and to work with the Ballast Water Work Group created by Legislature.

Program staff will provide support and supplies to volunteer monitors for European green crab in Puget Sound, and Zebra mussels in fresh water lakes and rivers throughout the state. They will also conduct snorkel surveys for Atlantic salmon, and oversee monitoring and control efforts for invasive tunicates. They will work with the Washington State Patrol to re-establish the inspection of commercially hauled boats at state ports of entry, and will conduct boat inspections and boater surveys at launches and marinas throughout the state as well as public outreach and education activities

Agency: Fish and Wildlife**Budget code title:** Fish Contaminant Status and Trend Monitoring**Total proposed funds:** \$704,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-05	\$704,000			GF-S	Priority 2 Strategy 5 The Role of Science Strategies 1, 2 & 4	MR

Program description: Continue long term monitoring on the contaminant levels and contaminant induced liver disease in selected species of Puget Sound fish. This work evaluates the status and trends that flame retardants like polybrominated diphenyl ethers (PBDEs) and other contaminants are in Puget Sound fishes. These data are necessary to assess potential harms to humans from consuming Puget Sound fish and to the health of the Puget Sound ecosystem.

Proviso funded activities: The proviso funds provide (a) support of staff resources for sample collection, database management, limited data analyses and reporting and (b) contract cost for chemical analyses of fish samples. This project includes a monitoring program for contaminant levels in English sole (8 stations), Pacific herring (3 stations) and coho salmon (4 stations). Each species would be sampled every other year. English sole would be monitored for liver disease every other year. This option would **not** allow for monitoring of species previously sampled by PSAMP (chinook salmon, demersal rockfish, lingcod or Dungeness crabs).

Expected Results:

Priority 2: Prevent Toxic Contamination

Coordinate with state and federal agencies to characterize the status and trend of toxic contamination and their effects in the Puget Sound ecosystem (Result 5).

The Role of Science in Puget Sound in 2007-2009

Information from monitoring the ongoing status and trends is used to determine in water quality conditions are improving or declining (Result 1).

Data from status and trend monitoring is used to watch for 'red flags' of deteriorating water quality (Result 1).

Threats to marine wildlife health from exposure to PCBs, PBDEs, mercury and PAHs are identified in English sole and Pacific herring (Result 1).

Monitoring results are disseminated at the 2009 Puget Sound –Georgia Basin research conference (Result 2).

Result 4:

Participate in development of a work plan for science activities in Puget Sound that describes the status and trends, effectiveness monitoring and research tasks that will be carried out by state agencies, and the funding level for each activity (Result 4).

Agency: Fish and Wildlife**Budget code title:** Long-Term Monitoring of Puget Sound Marine Birds- Continuation**Total proposed funds:** \$220,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-06	\$220,000			GF-S	Priority 7.5: c,e, and f.	MR PS/GB

Program description: The inner marine waters of Washington State are host to key concentrations of highly diverse and significant portions of the Pacific Flyway's populations of marine birds, indicators of the marine ecosystem's health. Annual monitoring data gathered between 1992 and 2006 in Puget Sound have documented significant declines over more than 20 years in 13 of the 18 species evaluated. A number of these species have declined significantly, some as much as 80-95%. Monitoring data are critical to monitor recovery, evaluate differences in sub-regions, help direct specific management efforts, and assist WDFW in maintaining state, federal, and international partnerships.

Proviso funded activities: Continue at a reduced (once per biennium) level, use of aerial surveys, which have been used annually throughout 1992-2006 winter aerial bird surveys in the inner marine waters of Washington. Survey design follows the stratified random survey design and coverage directed by past scientific review. Provide relative density indices, summaries, analyses, map products, and interpretation of monitoring data for ongoing management programs and integration into PSAMP and other programs, partnerships, and collaborations.

Expected Results:

- Provide status and trends data once per biennium for select groups of wintering marine bird and waterfowl species that have significant native populations utilizing greater Puget Sound. (7: Marine Bird Results: f).
- Provide critical data for a seabird recovery plan "Develop a conservation plan for at-risk marine bird species in Puget Sound." Focused funding for the preparation of a recovery report would be required. (7: Marine Bird Results: c)
- Make data available in GIS format accessible to the public. (7: Marine Bird Results: e).
- Inform the public and managers through dissemination of results and analyses at research conferences, meetings, and reports. (7: Marine Bird Results: e).
- Determine what habitats, patterns of distribution, and mortality factors impact declining species of concern most and use these to help develop management actions that would minimize declines and support recovery. (7: Marine Bird Results: c, f)

Agency: Fish and Wildlife

Budget code title: Puget Sound Marine Fish Recovery

Total proposed funds: \$680,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities & Results	PS Plan Program
DFW-07	\$680,000			GF-S	Priority 7: Marine fish - c and d	MF H8,9; R1.1, PS/GB-1

Program description:

This program provides the resources to conduct stock assessment, long-term monitoring, and management of Puget Sound groundfish populations. The role of marine reserves (marine protected areas) will also be investigated as a management and stock rebuilding tool. These activities provide the basis for groundfish recovery actions and fishery regulations. Results will be used to evaluate and increase the effectiveness of fish management actions.

Proviso funded activities:

A series of surveys will be conducted in two basins of Puget Sound or adjacent waters annually. The results will be analyzed to produce abundance estimates for English sole, Pacific cod, and other groundfish. The results will be widely distributed to other agencies, tribes, researchers and the general public.

Existing WDFW marine protected areas will be monitored for trends in fish abundance, spawning activity, and size distributions. Potentially new marine reserves will be identified and evaluated for use as fish management tools. Underwater visual surveys will be conducted using agency divers, underwater cameras and Remotely Operated Vehicles.

Groundfish Conservation and Management Plans will be developed and implemented for selected groundfish species. Development of these plans will entail computer modeling and review of fishery performance. We anticipate the development of conservation plans for one species annually.

We will collaborate with other state agencies, the federal government, tribal governments, Canada, and universities to increase the effectiveness of this program. This collaboration is anticipated to produce significant savings as field and operational costs can be reduced.

Project staff will respond to reports of fish kills in Hood Canal and determine behavioral responses of fish to low levels of dissolved oxygen.

Expected results: Conduct two annual bottom trawl surveys, each with 75 stations covering two sub-basins of Puget Sound or adjacent waters. Sub-basins are anticipated to include Central Puget Sound and Whidbey in 2008 and Hood Canal and South Puget Sound in 2009.

One peer-reviewed scientific paper detailing the results changing communities, trends, or other results obtained from bottom trawl and other surveys in Puget Sound and one scientific paper on the results of marine reserve studies.

Conduct surveys of sub-tidal marine protected areas and intensive surveys of key reserves and adjacent fished sites in the San Juan Archipelago, Hood Canal, and Puget Sound.

Create maps of the distribution and suitability of nearshore rocky habitats and recommendations for 6 rockfish conservation areas.

Promulgate permanent or emergency regulations modifying or restricting the harvest of sensitive groundfish species.

Develop collaborations with extra-agency scientists elaborating on aspects of groundfish surveys, habitat relationships, results, or cooperative investigations.

Develop two new groundfish conservation plans for key species detailing the status, fishery, and needs to recover or maintain healthy populations.

Agency: Fish and Wildlife

Budget code title: Census of Burrow-Nesting Seabirds in Puget Sound

Total proposed funds: \$150,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-08	\$150,000			GF-S	Section 8: The Role of Science in Puget Sound Conservation and Recovery Plan in 2005-2007: <u>Strategies:</u> 1, 2 <u>Results:</u> 2, 4, 5, 6, 7, 8	<ul style="list-style-type: none"> Monitoring & Research (MR) Puget Sound/Georgia Basin Shared Waters (PS/GB)

Program description: Rhinoceros auklets and tufted puffins are burrow-nesting seabirds that have demonstrated steep population declines in Puget Sound. For example, there were five tufted puffin breeding colonies in 1989 and today there is thought to only be one. At the remaining colony, the number of breeding tufted puffins has apparently declined by at least half from that reported in 1989. In addition, Puget Sound's Protection Island rhinoceros auklet population has decline by approximately 30% since 1975. Because of concerns about declining populations, the tufted puffin is listed as a federal Species of Concern and a State Candidate. There is a need to more formally document population status and trends for tufted puffins and rhinoceros auklets. In addition, research is needed on the potential causes for these precipitous declines.

Proviso funded activities: Re-survey all historic Puget Sound breeding colonies to determine presence/absence and to estimate breeding populations of both species at Smith and Protection Islands. At-sea survey data will be used to examine population trends over the past 8 years. Finally, reproductive success on both coastal and Puget Sound populations will be assessed in order to begin to determine potential population decline causes.

Expected results:

1. Re-survey all historic Puget Sound breeding colonies to determine presence/absence and to estimate breeding populations of both species at Smith and Protection Islands. (8: Result 2).
2. Assemble population estimates for rhinoceros auklets and tufted puffins in Puget Sound using on-going at-sea seabird surveys (8: Results 2, 7, 8).
3. Initiate work to examine the role of changes in forage fish populations to changes in tufted puffin and rhinoceros auklet populations
4. Organize a coordinated effort among federal, state, tribal, and university biologists to better understand the decline of these burrow-nesting seabirds in Puget Sound waters and direct recovery action (8: Results 4, 6).
5. Initiate a study to examine reproductive success on both coastal and Puget Sound populations.

Agency: Fish and Wildlife

Budget code title: Estuary and Salmon Restoration Project

Total proposed funds: \$10,000,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-09		\$5,000,000 FY 07 Supplemental Capital Bdget	\$5,000,000 PSAT Proviso Enhancement-		Priority 6, Strategy 2b, c	MFH

Program description: Restore Estuaries and Salmon Habitat

The Governor proposed and the Legislature provided \$2.5 million to WDFW in the FY07 Supplemental Budget and identified an 07/09 biennium “bow-wave” of \$5.0 million for the program. On July 14, the Executive Committee of the Puget Sound Nearshore Partnership approved nine restoration and protection projects with a total value of over \$20,000,000. Using the PSNERP nearshore projects database, potential projects were identified and sponsors contacted. Members of the interagency PSNERP Implementation Team applied ranking criteria consistent with program guidelines, and recommended a prioritized list of fifteen projects for funding to the Nearshore Partnership Executive Committee as required by the Legislature. Funded projects were also evaluated for opportunities for focused monitoring and educational opportunities to address PSNERP information gaps and deliver improved understanding of restoration project results.

Proviso funded activities:

Restoration and protection projects will be solicited, reviewed and implemented consistent with the findings of the Puget Sound Nearshore Ecosystem Restoration Project and the Regional Salmon Recovery Plan and local Lead Entity and Marine Resource Committee strategies. WDFW has included \$5,000,000 in its agency 07/09 Capital Budget request. The additional funds requested here would bring the total to \$10 million. Staff and program costs are provided in the agency base budget, so all funds go directly to projects.

Expected Results:

Expected results are funding for 20 to 30 high priority nearshore restoration and protection projects. The projects will all leverage substantial local, state, and federal cost-share. Funded projects will identified in salmon recovery plans and will also be consistent with priorities identified through the Puget Sound Nearshore Ecosystem Restoration Project feasibility report. Funded projects will also inform adaptive management of the program through monitoring and evaluation elements.

Agency: Fish and Wildlife

Budget code title: Comprehensive Surveys for Marine Rockfish

Total proposed funds: \$338,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-10		\$338,000		GF-S	Priority 7: Marine Fish d	MFH

Program description:

Rockfish have been specifically identified as a critically depressed species at risk in the 2007-09 Puget Sound Conservation and Recovery Plan developed by the Puget Sound Action Team, and the Governor's Puget Sound Partnership. The species are long-lived, slow growing, and have inconsistent reproduction success. Targeted commercial fisheries have been eliminated, and recreational fisheries reduced, however unintentional catch during halibut, lingcod, and salmon fisheries may hamper recovery. Limiting the fisheries has resulted in the loss of fishery statistics once used to track population levels. Traditional surveys using trawl, SCUBA, and video assessment are limited by the depth and accessibility of sampling gear. WDFW staff has been developing underwater robot technology to scientifically estimate the abundance of rockfish in both nearshore and deep waters. This project requests funding for region-wide surveys using this new technology and bottom trawl surveys to independently monitor the abundance of rockfish populations in non-rocky habitat and to track their recovery over time.

Proviso funded activities:

Basin wide surveys will be conducted with new and existing technology to estimate the current abundance and future recovery of rockfish populations. A remote-operated vehicle (ROV) survey will be conducted in one or two basins located in the inland marine waters each year, beginning with the San Juan Archipelago. On each survey the ROV will travel a minimum of 150 randomly selected transects from maps of rocky habitats where rockfish live. Bottom trawl surveys that assess rockfish and other groundfish

10-3-06

Action Team – PS Council Review Draft

living on sand and mud habitats will complement the ROV surveys. After each survey data will be recorded and analyzed and an annual report produced.

Expected Results:

A minimum of three ROV surveys and trawl surveys will be completed, and an updated stock assessment and report will be provided each year. The surveys will provide a credible basis for conservative management specifically for rockfish and other marine fisheries. By providing measures for evaluating conservation and recovery strategies, the least restrictive management measures will be implemented with sound science providing population trend and abundance information. Data provided will help develop and integrate sound fish information for state and tribal fishery managers, the Puget Sound Action Team and Council, the Northwest Straits Commission, Marine Resource Committees and recreational and commercial fisheries.

Agency: Fish and Wildlife

Budget code title: Requirements for Implementing Puget Sound Steelhead Management

Total proposed funds: \$1,100,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-11		\$1,100,000		GF-S	Priority7: Strategy 2	MFH

Program description:

Puget Sound steelhead were proposed for listing as “threatened” under the federal ESA March 29, 2006. Central features of the proposed listing included loss of habitat, apparent negative influence of the non-local hatchery steelhead released for harvest purposes, limited stock assessment data and quantification of harvest mortality on the non-target wild steelhead populations during course of fisheries, and lack of certainty for marked improvements in factors leading to the natural production decline for Puget Sound steelhead. They may be a link to early marine survival as evidenced by the equally poor survival of British Columbia stocks. National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NOAA Fisheries) will make a final determination in March 2007. Final listing determinations rely solely on the best scientific and public data available after taking into account efforts being made to protect a species.

This proposal is intended to address those specific listing factor gaps identified within the federal register notice www.nwr.noaa.gov/Publications/FR-notices/2006/upload/71FR15666.pdf and provide certainty of implementation of harvest and hatchery reform through the development of a Puget Sound Steelhead Management Plan.

Expected Results:

By 2009, develop a co-management based comprehensive Puget Sound Steelhead Management Plan and begin implementation of the plan; this will include enhanced

stock assessment along with changes in harvest and hatchery strategies to improve the status of natural production.

NOAA Fisheries in the federal register notice (see link above) indicated that if WDFW completed a new steelhead management plan prior to the publication of the final rule (one year from date of issuance of proposed rule on March 29, 2006), then NOAA Fisheries would consider its actions and certainty of implementation within its final listing determination. In addition, information that can be provided to fill listing factor gaps would provide more detailed scientific basis for final determination of a listing. Insufficient habitat protection and continued population growth in the Puget Sound region jeopardize the ecosystems in which steelhead reside. Restoration of ecosystems, and increased knowledge of the fish populations that depend upon them will be key to environmental sustainability.

Agency: Fish and Wildlife

Budget code title: Tunicate Response

Total proposed funds: \$425,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-12			\$425,000	GF-S	Priority6:5b,c,d.	ANS

Program description:

There are three species of invasive tunicates that have developed rapidly expanding populations in Puget Sound and Hood canal, altering the ecosystems and crowding out native species. Emergency funding from the Governor's office and the Legislature helped to launch a successful project to survey and control the tunicates at marinas in Puget Sound and Hood Canal. We surveyed 5 marinas and 1188 boats, and tunicates were removed from 156 boats to reduce the potential for spread to other areas. Dense populations of *Styela clava* remain on 75% the docks at Blaine and 95% of docks Pleasant Harbor and Home Port. The docks at Semiahmoo were completely cleaned, but the jetty was not. Three eradication methods were tested to determine efficacy and project eradication costs. Results of our tests indicate that we can control the spread and possibly eliminate established populations of *Styela clava* at Blaine, Semiahmoo, Pleasant Harbor, and Home Port marinas and nearby private docks. Outreach and education materials were developed and distributed to Marinas throughout the region. The requested funding will continue the control/eradication program into the 07/09 biennium.

Proviso funded activities:

The program will work with other state agencies to develop and implement a response strategy for *Styela clava* and *Ciona savignyi* in Puget Sound and Hood Canal. Experience to date indicates that we can successfully control, and possibly eradicate, *Styela clava*. The Pleasant Harbor Marina is scheduled for renovation. Staff will work with the owners to insure that the 150 docks that are not replaced are cleaned. Staff will work with property owners to ensure that the 75 docks at Home Port Marina and the 12 surrounding private docks are cleaned. The Jetty at Semiahmoo will be cleaned, the 250

10-3-06

Action Team – PS Council Review Draft

docks inspected and any new tunicates found will be removed. At Blaine an effort will be made to at least remove tunicates from the most densely populated of the 600 docks to the extent funds allow. All boats will be surveyed and cleaned if necessary at all the marinas. Outreach and education materials will be distributed to dive and tackle shops, and to boaters at marinas and launches. Presentations will be made to stakeholders and NGO's.

Expected Results:

Accurate surveys and density estimates of tunicate populations in Puget Sound and Hood Canal will be completed. A response strategy will be developed and implemented to control, and where possible eliminate, populations of *Styela clava* and *Cionol savignyi*. *Styela clava* will be removed from three of the four marinas, and boats will be resurveyed and cleaned. Control methods will be tested on dense populations of *Ciona savignyi* at Des Moines. Survey and monitoring efforts will continue throughout Puget Sound and Hood Canal to identify new populations and monitor the results of control efforts. Outreach and education efforts will be continued.

Agency: Fish and Wildlife

Budget code title: Shoreline Guidance for Local Governments

Total proposed funds: \$320,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-13			\$320,000	GF-S	Priority 4, Strategy 6; Priority 5, Strategy 2 & 6	MFH

Program description: Local governments need and are requesting guidance related to the protection of priority species and habitats along the Puget Sound shoreline. The guidance we propose to develop will support local governments efforts to implement the Shoreline Management Act (SMA) and Growth Management Act (GMA) and provide protection for critical habitats around Puget Sound. Using the best available science, the Priority Species and Habitats (PHS) program has produced assessments, management recommendations, and detailed maps for use by local governments in riparian and upland areas of Washington State. By extending the program to nearshore and marine habitats, PHS can provide critical information to local governments, tribes, state and federal agencies, and other stakeholders to assist them in meeting their mandates and deadlines under the GMA and SMA.

Proviso funded activities: WDFW will assemble the science using literature reviews and coordination meetings with other agencies and researchers. Using a similar format as previous PHS documents, we will develop management recommendations and maps of marine and nearshore priority habitats and species. Lastly, we will submit draft documents for external peer review, including local planners, prior to completion and distribution to local governments and interested citizens.

Expected Results: Building on the science developed by PSNERP and others, WDFW will develop and distribute management recommendations and associated maps of

10-3-06

Action Team – PS Council Review Draft

priority species and habitats in both hard and electronic media. These documents will assist local jurisdictions in meeting the requirements of the GMA and SMA, and they will contribute to the adequate consideration of marine and nearshore resources in land use planning processes of Puget Sound.

Agency: Fish and Wildlife

Budget code title: HPA Program Compliance and Effectiveness, Including Evaluation of Mitigation Actions

Total proposed funds: \$300,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-14			\$300,000	GF-S	Priority: 5, Strategy 2	MFH

Program description: Effective regulatory programs, including the HPA program, are critical components of efforts to protect and restore Puget Sound. Under the HPA program, a large amount of modified shoreline has been permitted, yet compliance and effectiveness of HPA activities in the nearshore, including mitigation associated with projects, is mostly lacking. This project will measure compliance and effectiveness of the HPA permit program, including the overall performance of mitigation projects, and make recommendations for improvements within an adaptive management framework.

Proviso funded activities: This program will fund 1 full time and 4 seasonal field biologists to review recent HPAs to determine if proponents implemented provisions of the permit, and whether those provisions were effective in protecting habitat. This activity will focus first on the most important activities (as measured by number of permits) including shoreline modifications and over-water structures. Additionally, an analysis of mitigation effectiveness will also be conducted.

Expected Results: WDFW will produce study results describing the compliance rate among HPA applicants, measures of effectiveness of the HPA provisions and mitigation activities. The study will recommend practical ways to improve compliance and effectiveness of HPA permits in Puget Sound, and more effective means of meeting the goals of mitigation programs, and measuring success.

Agency: Fish and Wildlife

Budget code title: Use of Remote Sensing Satellite Imagery to Monitor Habitat Change in Puget Sound

Total proposed funds: \$250,000

This \$250,000 is part of a broader statewide package that has been submitted for funding as part of Fish and Wildlife 07/09 budget.

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-15			\$250,000	GF-S	Priority 5 Strategy 6	MFH

Program Description: Tracking salmon populations (i.e., abundance, productivity, diversity, and spatial distribution) and associated habitat features is critical to determine success or progress of salmon recovery. To track changes, a baseline, called status, must first be established. Over time changes, called trends, in the baseline or status can be determined through monitoring.

This \$250,000 budget package represents the Puget Sound habitat portion of a monitoring package. This package will provide satellite imagery and change analysis for Puget Sound and does not provide aerial photography coverage.

This Puget Sound satellite imagery portion is part of a broader package that includes habitat (\$3M) and fish (\$1.7M) monitoring, and consists of satellite imagery for the entire state, and aerial photography in select areas that are coincident with high priority salmon streams (populations) where adult (i.e., fish in) and juvenile (i.e., fish out) fish are being monitored. The aerial photography information is necessary to address mid-scale variables such as riparian habitat. This broader budget package will be submitted to the Governor's Budget by Fish and Wildlife and the Governor's Forum on Monitoring.

Proviso funded activities: Changes in high-level, also called coarse-grained, habitat features (e.g., land conversion, impervious surface) will be characterized and reported every two years using satellite imagery. Information about the nearshore environment will be available for the entire Puget Sound. Funded activities include satellite data acquisition, and data processing, analysis, and reporting using a portion of an FTE.

Expected Results: This program will provide a high-level indicator of changes in impervious surface and land conversion and alteration that can be reported in State of Salmon Report, along with GIS satellite data that can be used by the public, agencies, and scientists.

Agency: Fish and Wildlife

Budget code title: Deschutes Estuary Feasibility Study

Total proposed funds:

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities & Results	PS Plan Program
DFW-16			\$135,000	GF-S	Priority 6, A.1, and A.4.	MFH

Program description: Increasing costs associated with sediment removal, control of invasive aquatic weeds, and concerns about water quality have caused General Administration (GA) to investigate alternatives to the long-term costs associated with maintaining Capitol Lake. Those alternatives include full or partial restoration of the historic estuary by removal or alteration of the tide-gate. In the current 05/07 biennium, WDFW has funded and managed a suite of technical studies evaluating the social and ecological costs and benefits of restoring the estuary.

Proviso funded activities: The final phase of the study is the Final Feasibility Study. The study will summarize and present the results of the technical studies. The cost of

10-3-06

Action Team – PS Council Review Draft

the Final Feasibility Report is approximately \$135,000. The report will be presented to the Capital Lake Adaptive Management Planning Committee (CLAMP) Committee. This request is a placeholder for funding the final feasibility report, pending a discussion with the Department of General Administration and the CLAMP Committee regarding the most appropriate funding mechanism and cost-share between the CLAMP members.

Expected results: The expected result of this appropriation will be the delivery of a final feasibility report on the restoration of the Deschutes River Estuary to the Capital Lake Adaptive Management Planning Committee.

Agency: Fish and Wildlife

Budget Code Title: Expand Derelict Gear Removal Outside Of The NW Straits

Total proposed funds: \$ 286,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-17			\$286,000	GF-S	Priority 6(1)	MFH

Program description: Derelict (lost or abandoned) fishing gear is a large and ongoing problem in Puget Sound. The derelict gear can continue catching and killing many species of fish, shellfish, birds and marine mammals. Certain types of derelict gear can pose hazards to navigation and human safety. The NW Straits Commission has pioneered a successful program to remove derelict gear in the Strait of Juan de Fuca and northern Puget Sound. If funded, this project would collaborate with the NW Straits Commission to expand the derelict gear effort to the remaining portions of Puget Sound, including Hood Canal. This increased effort is anticipated to double the amount of derelict fishing gear removed annually from all of Puget Sound.

Proviso funded activities: This project would provide training to persons/organizations interested in removing derelict gear. The training would include proper safety standards, reducing habitat damage during removal, proper disposal of retrieved gear and proper reporting requirements. The project would also fund retrieval efforts to qualified persons/organizations. This funding would include training, vessel time, diver time and disposal costs. The department would identify high priority derelict gear to be removed. There is also a component to actively search for derelict gear for future removal.

Expected Results:

The Department anticipates removal and proper disposal of 150 commercial nets and 300 shellfish pots (both sport and commercial) annually. Five surveys of bottom habitat will be conducted to search for derelict gear in Hood Canal from the Seattle to Olympia portion of Puget Sound. Three training sessions will be offered to interested parties. The estimated cost for these activities is \$200,000.

The Department will maintain a computerized database of both reported derelict gear and retrieved derelict gear. The database will be used to guide recovery efforts throughout Puget Sound and as a measure of progress too reduce the amount of derelict gear. The estimated cost for this activity is \$86,000.

Agency: Fish and Wildlife

Budget code title: Identifying Priority Juvenile Salmonid Habitat in the Nearshore

Total proposed funds: \$750,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-18			\$750,000	GF-S	Priority 1 Priority 6 Priority 7	MFH

Program description: This proposal addresses impediments in the nearshore environment of Puget Sound to the viability of both listed salmonids and at risk species of wildlife.

Nearshore areas are identified as a significant impediment to the recovery of listed salmonids in Puget Sound, but limited information is available to guide the identification and development of restoration actions to address this concern. This proposal will build on pilot projects conducted in the Skagit estuary and acoustic tagging to: 1) identify nearshore habitat characteristics currently impeding the recovery of salmonids; 2) nearshore habitat restoration projects with the greatest benefit to listed salmonids; and 3) analytical tools to evaluate the potential benefits of nearshore restoration projects.

An long-term, intensive project in the Skagit estuary has demonstrated how to assess the utilization of nearshore areas by juvenile salmonids, identify habitat characteristics limiting the survival and production of juvenile salmonids, and predict the potential benefits of restoration actions. Pilot studies using new acoustic tagging techniques have demonstrated great value in assessing the migratory path and habitat utilization of juvenile salmonids. We will build on these pilot projects in a multiyear project to identify and prioritize restoration actions throughout the nearshore areas of Puget Sound.

High priority estuary restoration and protection projects will be evaluated for their benefits to targeted wildlife species (e.g. marine birds, waterfowl, and shorebirds). Priority estuaries selected will be consistent with the findings of the Puget Sound Nearshore Ecosystem Restoration Project (PSNERP) and the Regional Salmon Recovery Plan and local Lead Entity and Marine Resource Committee strategies.

An ecosystem based approach to estuary restoration considers the benefits of various restoration proposals on a variety of species and ecosystem processes. This proposal evaluates the benefits of restoration activities on several wildlife species and will be integrated with information on other species (e.g., salmon) and ecosystem processes.

Expected Results:

1. Identify the nearshore habitat used by juvenile salmonids and the characteristics of the habitat impeding recovery.
2. Identify nearshore restoration projects nearshore habitat restoration projects with the greatest benefit to listed salmonids.

3. Develop analytical tools to evaluate the potential benefits of nearshore restoration projects.
4. Identify habitat used by shorebirds, seabirds and waterfowl (6.2.c, 6.3)
5. Develop predictive models of species habitat use. (6: 2: c, 6.3).
6. Use the predictive habitat use models in combination with remote sensing techniques (e.g., LIDAR) to predict the impacts of estuary restoration projects on shorebirds, seabirds and waterfowl (6: 2: c, 6.3).

Agency: Fish and Wildlife

Budget code title: Aquatic Habitat Guidelines for Shoreline Protection Alternatives

Total proposed funds: \$505,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-19			\$505,000	GF-S	Priority 5, Strategy 2&6, Results 2e& 5c Priority 6, Strategy 2&3, Results 2a & 3a	MFH

Program description: Aquatic Habitat Guidelines (AHG) marine documents are designed to provide guidance for an integrated approach to protecting and restoring marine and riparian habitat. This approach is necessary to provide consistency in regulatory interpretations, assist with permit streamlining, and ensure that habitat-related projects are based on best available science. Specifically, an AHG document for Shoreline Protection Alternatives will provide detailed guidelines and recommended specifications for innovative approaches that are as effective but less damaging to the natural environment than traditional shoreline armoring. Development of this AHG document would utilize and build on current efforts by PSNERP, PSAT and the Army Corps of Engineers related to shoreline armoring alternatives.

Proviso funded activities: Development of an AHG document for Shoreline Protection Alternatives includes a review of existing approaches, engineering analysis of alternative methods, and production of materials for use by planners, regulators, designers, biologists, landowners and contractors. Guidance in the document would provide a concise approach for evaluating potential solutions to specific site conditions and desired outcomes, incorporating habitat-focused approaches that integrate shoreline processes in design concepts.

Expected Results: A multi-disciplinary evaluation of alternative techniques for shoreline protection will be produced to provide planners, regulators, designers, biologists, landowners, and contractors an effective tool for moving beyond traditional shoreline armoring approaches. The AHG guidelines we produce will reduce the need to armor marine shorelines with vertical concrete and rock bulkheads that are contributing to the decline of Puget Sound. Although limited guidance papers exist, they largely lack a multi-disciplinary approach to the problem. This document will also greatly assist cities and counties in meeting their requirements to update their shoreline master programs.

10-3-06

Action Team – PS Council Review Draft

Agency: Fish and Wildlife

Budget code title: An Integrated Approach to Understanding Forage Fish Ecology

Total proposed funds: \$845,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-20			\$845,000	GF-S	Priority 5, Strategy 6; Priority 7, Strategy Forage Fish a & b. Science Priority 7 (3), (11), (13).	MFH

Program description:

This proposal, composed of three integrated studies, is designed to better understand the effect of human disturbance on forage fish and the role of forage fish in marine food webs. Using sand lance as the model species for all forage fish, this work will dramatically improve our understanding of: 1) basic population structure (e.g. age structures and age fecundity relationships), 2) factors controlling spawning habitat suitability including both natural and human disturbance and early life history ecology including egg mortality and larval behavior, and 3) trophic relationships between sand lance and three model species (marine birds, seals and Chinook salmon).

Proviso funded activities: The first study includes capturing sand lance from four areas of Puget Sound and documenting population age structure and age specific fecundity - information that will be used to construct models that can identify the most important life history characteristics in terms of population responses. The second study follows the fate of sand lance eggs in four nearshore environments through larval stages, until those fish recruit to pelagic populations. The final component would study the trophic dynamics of sand lance and the relative importance of forage fish to Chinook salmon, marine birds, and harbor seals using both traditional methods (e.g., gut contents) and stable isotopes.

Expected Results:

- A model relating forage fish population responses to ecosystems changes affecting the nearshore. That is, how human induced (e.g., interruption of beach sediment, marine shoreline armoring, over-water structures, global warming) and natural disturbances affects specific life history stages and how this stress may translate into forage fish population level responses.
- A food web submodel relating forage fish to marine birds, harbor seals, and Chinook salmon in the marine environment.
- Assessment of impacts of marine birds, harbor seals, and Chinook salmon on forage fish populations and similarly, an assessment of the importance of forage fish as a prey item on marine birds, harbor seals and Chinook salmon.
- Preliminary assessment of genetic structure of sand lance populations across four regions of Puget Sound.
- Information, for planners and managers, that can be used to discriminate between high quality and marginal spawning habitat for sand lance.

10-3-06

Action Team – PS Council Review Draft

- Development of new survey techniques specific to forage fish that will allow other researchers to focus on forage fish ecological studies.
- The development of partnerships between agencies working on forage fish ecology including USGS, WDFW, DNR.
- Peer-reviewed publications that will facilitate wider scale appreciation of the importance of forage fish to a healthy Puget Sound.

Agency: Fish and Wildlife

Budget code title: Orca Conservation, Recovery and Monitoring

Total proposed funds: \$350,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities & Results	PS Plan Program
DFW-21			\$350,000	GF-S	Priority 7 Orca: a	MFH, EM

Program description: The southern resident orca population that occurs in the marine waters of Washington State and Canada has undergone an 18% decline in recent years. The Washington Fish and Wildlife Commission and Canada have listed it as an endangered species, it has been designated as a depleted stock by NOAA Fisheries, and it is under a second review for possible listing under the federal Endangered Species Act. Contaminants, harassment, and prey declines have been identified as possible factors in the decline. The WDFW and PSAT partners have a role in developing and implementing recovery strategies and actions to achieve orca recovery. This project will complete and begin implementing an orca recovery plan with specified management actions and an identified schedule. Research needed to aid conservation and recovery of the orca will be conducted, information transferred to federal, state, tribal and local governments and citizens and the status and trends of recovery of the endangered orca population will be monitored.

Proviso funded activities: Complete a state recovery plan for the orca in Washington. Work with NOAA Fisheries and Department of Fisheries and Oceans Canada to develop and implement orca recovery/conservation plans. Continue contaminant monitoring in upper trophic level marine mammals (harbor seals) to monitor contaminant levels and types in the Puget Sound ecosystem inhabited by orcas. Conduct studies of orca diet and winter distribution and input orca sightings into the WDFW datasystem, including use and support of volunteer citizen science. Educate boaters and whale-watchers to prevent harassment of orcas.

Expected results: Increase orca numbers and contribute to recovery of the endangered population. This project would identify and implement recovery actions needed to restore the orca population in Puget Sound to healthy levels. A recovery plan would be developed for the orca in Washington and identified recovery actions for the state would be implemented. Scientific information will be made available to make management decisions affecting the orca and the Puget Sound ecosystem they occupy. Long-term benefits will be the protection and increase in numbers of the orca population to achieve recovery levels.

10-3-06

Action Team – PS Council Review Draft

Agency: Fish and Wildlife

Budget code title: Fish In/Fish Out Monitoring

Total proposed funds: \$750,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-22			\$750,000	GF-S	Priority 5 Priority 6 Priority 7	MFH

Program description: This proposal is the Puget Sound component of the agency decision package “Governor’s Monitoring Forum”. The decision package provides the scientific data essential to successfully guide and assesses the effectiveness of recovery actions in the freshwater environment.

The Governor’s Forum on Monitoring Salmon Recovery and Watershed Health (the Forum) has concluded that population abundance and productivity are two important determinants of the status of salmon and steelhead populations. Monitoring the abundance of adult spawners and the subsequent production of juvenile downstream migrants provides key data to evaluate the success of restoration and protection actions in the freshwater environment. The Forum has developed a statewide monitoring framework that recommends monitoring the adult and juvenile production of at least one population in each major population group (MPG). In total, the Framework identifies 28 major population groups and a minimum of 34 populations requiring monitoring to effectively assess delisting criteria statewide.

The funding requested in the decision package would complement the Puget Sound Partnership by filling gaps in juvenile migrant (smolt) monitoring identified by the Forum at the following locations in Puget Sound: 1) Skagit River Chinook; 2) Nisqually River Chinook; 3) Dungeness River Chinook; and 3) Dosewallips River Chinook and summer chum.

Expected Results: Funding this proposal provides the scientific data essential to successfully guide and assess the effectiveness of recovery actions. For example, restoration of freshwater habitat can be expected to increase the number of juvenile migrants, and juvenile migrants per spawner, produced for a given level of adult spawners. Specifically, we will provided estimate of the number of adult spawners and juvenile migrants for Chinook salmon populations in the Skagit, Nisqually, Dungeness, and Dosewallips rivers, and summer chum in the Dosewallips River.

Agency: Fish and Wildlife

Budget code title: Puget Sound Citizen Science and Education

Total proposed funds: \$400,000

Budget Code	Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DFW-23		\$400,000		GF-S	Priority 5 Strategy 6	EPI, MFH

Program description: The Governor's Puget Sound Partnership includes measurable outcomes to improve the aquatic life, habitats and food webs on which all resources and human activities in the Sound depend. It is now apparent that the majority of Washington citizens are unaware of the current plight of the Puget Sound ecosystem. In the long run it will be up to the citizens of Washington State to protect and conserve our natural heritage and diverse species. There is a need to actively engage and empower local citizens to educate and increase their awareness on the health and status of Puget Sound. An important way to do this is for citizens to participate in activities designed to measure and monitor fish, wildlife and habitats in the nearshore environment. This program proposes making widespread use of visual media to promote awareness. Only through Citizen Science using the unique approach of combining education and research, can we successfully collect necessary scientific data while creating the level of awareness about the present and future challenges of Puget Sound that will be necessary to ensure long-term health of this important ecological system of Washington.

Proviso funded activities: The project will develop capacity through partnerships with other state, tribal and local programs investing in understanding the health and biodiversity of Puget Sound such as the University of WA NatureMapping Program, Beach Watchers, Washington Scuba Alliance, Seattle Aquarium and the K-20 learning institutions. Two FTE positions will develop and implement a Citizen Science Plan for project needs within WDFW in coordination with all agency programs. This proposal would include the development and operation of a Puget Sound Citizen Science Grant Program, which will supply small grants for local partners, engaged in nearshore and riparian citizen science and education programs that meet Puget Sound Partnership and WDFW goals. The program will assist in project coordination, database development, quality control and data analysis.

Expected Results:

1. This work will provide information to assess the progress toward the first measurable outcome listed in the "Aquatic Species, Wildlife and Food Web Discussion Paper" of the Puget Sound Partnership ("Numbers, productivity and condition of native species are adequate to ensure their populations persist and the food web functions to support ecosystem needs.")
2. Through direct experiences citizens will become aware and educated in the complexity of natural systems in order to help take the required actions needed to restore the health of Puget Sound.
3. Citizen scientists will provide specific evidence of biodiversity indicators to monitor changes for Puget Sound ecosystem. The project will provide field opportunities for science inquiry needed by the K-20 learning institutions, while connecting all participants to deeper learning for systems understanding and stewardship.
4. Increased public awareness of the hidden diversity and beauty within Puget Sound.

Department of Health

Agency: Health

Budget code title: Monitoring, data management and reporting

Total proposed funds: \$467,900

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOH-01	\$467,900			GF-S	Priority 3, 1a Priority 4 1a,b,c,d The Role of Science	SH

Program description: Shellfish Program -The Shellfish Program's mission is to protect and improve the health of the people in Washington by preventing their exposure to contaminated shellfish. Major elements include: the regulation of commercial shellfish operations; classification of commercial and recreational shellfish growing areas; pollution source evaluations; biotoxin and water quality monitoring in shellfish areas; illness investigations; restoration of sanitary conditions in shellfish growing areas; and participation in the Puget Sound Ambient Monitoring Program (PSAMP). To accomplish this, the program works in partnership with Tribes, local health jurisdictions, volunteer groups, state and federal agencies, and the shellfish industry.

Proviso funded activities: DOH participates in this program through its water quality and biotoxin monitoring programs. Program staff collect water quality and biotoxin data and analyze it to help meet the PSAMP goals to assess the health of Puget Sound, identify existing environmental problems, provide data to measure the success of environmental programs, provide a permanent temporal record of changes in key environmental indicators in Puget Sound and to support research activities by making available scientifically valid data.

Expected Results:

1. Threats to human health from marine environmental conditions such as harmful algal blooms, domoic acid, paralytic shellfish poisoning and other water contaminants are identified and measured.
2. Research and monitoring results are disseminated to managers via technical publications..
3. Use water quality data collected under the Puget Sound Ambient Monitoring Program to identify threats to human health from contaminated shellfish. Analyze water quality data for status and trends in 100% of the shellfish growing areas and distribute the information to local programs, decision makers and other stakeholders.

Agency: Health**Budget code title:** Protection and restoration of shellfish beds**Total proposed funds:** \$953,300

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
DOH-02	\$953,300			GF-S	Priority 3:5a; Priority 4:1 a, b, c, d, 4:2 g; HC: 1-c; The Role of Science	SH

Program description: Shellfish Program -The Shellfish Program's mission is to protect and improve the health of the people in Washington by preventing their exposure to contaminated shellfish. Major elements include: the regulation of commercial shellfish operations; classification of commercial and recreational shellfish growing areas; pollution source evaluations; biotoxin and water quality monitoring in shellfish areas; illness investigations; restoration of sanitary conditions in shellfish growing areas; and participation in the Puget Sound Ambient Monitoring Program (PSAMP). To accomplish this, the program works in partnership with Tribes, local health jurisdictions, volunteer groups, state and federal agencies, and the shellfish industry.

Proviso funded activities: DOH monitors water quality and evaluates pollution sources in selected shellfish areas to provide information needed to restore sanitary conditions. Health works closely with local health jurisdictions (LHJs) and Ecology to investigate pollution sources and to assist in developing closure response plans and watershed action plans. DOH has developed strategies to ensure that LHJs and other stakeholders are kept informed of the status of water quality and pollution sources in shellfish growing areas to enable early response to declining conditions.

Expected Results:

1. At least one shellfish growing area threatened or degraded by stormwater runoff is upgraded or protected.
2. A net gain of 500 commercial and recreational shellfish acres per year based on improvements in water quality or pollution controls.
3. Restoration projects are conducted at 12 commercial or recreational shellfish areas that are degraded or threatened.
4. At least 2 shellfish growing areas degraded or threatened by discharges from concentrations of onsite sewage systems are upgraded or protected.
5. The interagency Memorandum of Agreement guiding state agency responses to shellfish closures and threatened shellfish areas is updated.
6. Shoreline surveys in Mason, Jefferson and Kitsap counties are completed, failing systems are identified.

10-3-06

Action Team – PS Council Review Draft

Agency: Health

Budget code title: Recreational shellfish program

Total proposed funds: \$676,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOH-03	\$676,000			GF-P/L	Priority 4:1 a, b, c, d,	SH

Program description: Shellfish Program – The Shellfish Program's mission is to protect and improve the health of the people in Washington by preventing their exposure to contaminated shellfish. Major elements include: the regulation of commercial shellfish operations; classification of commercial and recreational shellfish growing areas; pollution source evaluations; biotoxin and water quality monitoring in shellfish areas; illness investigations; restoration of sanitary conditions in shellfish growing areas; and participation in the Puget Sound Ambient Monitoring Program (PSAMP). To accomplish this, the program works in partnership with Tribes, local health jurisdictions, volunteer groups, state and federal agencies, and the shellfish industry.

Proviso funded activities (local fees): DOH works with local health jurisdictions to: classify recreational shellfish beaches; assist in biotoxin monitoring; and provide health information to the public. DOH manages the biotoxin monitoring program and maintains a toll-free biotoxin hot line and an internet web site to inform the public of areas closed due to high biotoxin levels or pollution problems. DOH develops an *Annual Inventory of Commercial and Recreational Shellfish Beaches*. DOH develops and distributes educational information and participates in community events to share information regarding safe shellfish harvest. This component includes an enhancement of \$160,000 for pass-through funding to local governments.

Expected Results:

1. Restoration projects are conducted at 12 commercial or recreational shellfish areas that are degraded or threatened.
2. Classification of all recreational beaches with an average use of greater than 500 harvesters per year is initiated over a three-year period.
3. A net gain of 500 commercial and recreational shellfish acres per year based on improvements in water quality or pollution controls.
4. At least 2 shellfish growing areas degraded or threatened by discharges from concentrations of onsite sewage systems are upgraded or protected.

Agency: Health**Budget code title:** Onsite Sewage Management**Total proposed funds:** \$1,304,800

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOH-04	1,304,800			GF-S	Priority 4- Strategy 4a & b	OSS

Program description: The Wastewater Management Program's mission is to protect and improve the health of the people in Washington by assisting in the application of onsite sewage treatment technologies. Wastewater treatment technologies, matched to site conditions, combined with on-going operation and maintenance, meet the wastewater treatment infrastructure needs of suburban and rural portions of Puget Sound and Washington State.

Proviso funded activities: The Wastewater Management Program provides technical assistance to citizens, local health jurisdictions and the onsite sewage system design, installation, and service sectors. The program evaluates new and emerging technologies, develops standards and guidelines for their application, reviews and approves proprietary products, and works with the State Board of Health to update the administrative code. The program also directly regulates community and commercial large onsite sewage (non-mechanical) systems with daily design flows between 3,500 and 14,500 GPD. Through project review, permitting, and operational oversight the program helps ensure well designed, installed, and operated systems.

Expected Results:

1. Improved water quality conditions and less restrictive shellfish harvest classifications will occur due to improved application of onsite sewage system technologies, consistent with SBOH rules, DOH standards, guidance, and technical assistance.
2. Enhanced capacity of local health jurisdictions to design and implement effective and comprehensive onsite sewage programs using a range of regulatory and non-regulatory approaches.
3. The DOH tracks long-term management of Large Onsite Sewage Systems (LOSS) through annual operating permits. The DOH will continue to review, permit, and provide operational oversight of Large Onsite Sewage Systems to help ensure well designed, installed, and operated systems.
4. Water quality conditions will improve through the implementation of updated onsite sewage system rules. These rules include:
 - a. Chapter 246-272A — Small Onsite Sewage Systems (Under 3,500 GPD)
 - b. Chapter 246-272C — Onsite Sewage System Tanks

Agency: Health**Budget code title:** Shoreline Survey**Total proposed funds:** \$206,000 *

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOH-05			\$206,000	GF-S Non-Proviso	3-a, 4, Hood Canal 1c, h, i	SH

Program description: Shellfish Program – The Shellfish Program's mission is to protect and improve the health of the people in Washington by preventing their exposure to contaminated shellfish. Major elements include: the regulation of commercial shellfish operations; classification of commercial and recreational shellfish growing areas; pollution source evaluations; biotoxin and water quality monitoring in shellfish areas; illness investigations; restoration of sanitary conditions in shellfish growing areas; and participation in the Puget Sound Ambient Monitoring Program (PSAMP). To accomplish this, the program works in partnership with Tribes, local health jurisdictions, volunteer groups, state and federal agencies, and the shellfish industry.

Non-Proviso funded activities: This decision package will provide resources to complete shoreline surveys within required timeframes, identify and assess pollution sources, and to follow-up with remedial activities around commercial and recreational shellfish harvesting areas.

Expected Results:

1. Conduct triennial evaluations within required timeframes to determine growing area status and identify new sources of pollution.
2. Conduct follow-up activities on pollution sources identified during the surveys.
3. Conduct shoreline surveys in new commercial areas requested for classification and in more recreational shellfish areas.
4. Conduct shoreline surveys in restricted or closed growing areas that are selected for restoration.

* Dollars included in agency decision package for 07-09; not requested as a PS Plan proviso

Agency: Health

Budget code title: Large Onsite Sewage systems-Technical Assistance/Regulatory Oversight

Total proposed funds: Non-proviso GF-S \$2,910,000 **

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
DOH-06			\$770,000	GF-S	Priority 4-2d	OSS-LOSS
			\$2,140,000	GS-S	Priority 4-4a,b	OSS- LHJ

Program description: The Wastewater Management Program's mission is to protect and improve the health of the people in Washington by assisting in the application of onsite sewage treatment technologies. Wastewater treatment technologies, matched to site conditions, combined with on-going operation and maintenance, meet the wastewater treatment infrastructure needs of suburban and rural portions of Puget Sound and Washington State.

Funded activities: This decision package will provide the resources for:

- Technical assistance and regulatory oversight of Large Onsite Sewage Systems.
- Local health jurisdictions to implement their onsite sewage system management plans required under Third Substitute House Bill 1458.

This decision package is an initial step to address the Wastewater Management Program's outstanding needs to fully align with the Governor's Puget Sound Initiative. Additional resources in future biennia will be required to meet the Governor's goals.

Expected Results:

1. The performance status of Large Onsite Sewage Systems (LOSS) is documented and the number of large onsite sewage systems in compliance with Health and Ecology operating permits and/or percent of total LOSS (known and estimated unknown) identified/inspected is increased by 24 percent (Health).
2. Water quality conditions will improve through the implementation of updated rule: Chapter 246-272B — Large Onsite Sewage Systems.
3. Enhanced capacity of local jurisdictions to design and implement effective and comprehensive programs using a range of regulatory and non-regulatory approaches.
4. 12 local health jurisdictions are implementing onsite sewage program management plans approved by Health.
5. The number of local health jurisdictions with the data available to inventory and map onsite sewage systems in priority marine areas increases from 0* to 6.

** Dollars included in agency decision package for 07-09; not requested as a PS Plan proviso

*Marine Recovery Areas yet to be designated

10-3-06

Action Team – PS Council Review Draft

Agency: Health

Budget code title: Maintenance Level – Onsite: LHJ Support; Data Systems and Contract Management

Total proposed funds: Non Proviso GF-S \$558,000; ALEA \$600,000 **

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
DOH-07		\$430,000 \$430,000		GF-S ALEA	Priority 4- 4a,b	OSS-LHJ
		\$128,000 \$170,000		GF-S ALEA	Priority 4-4a,b	OSS

Program description: The Wastewater Management Program's mission is to protect and improve the health of the people in Washington by assisting in the application of onsite sewage treatment technologies. Wastewater treatment technologies, matched to site conditions, combined with on-going operation and maintenance, meet the wastewater treatment infrastructure needs of suburban and rural portions of Puget Sound and Washington State.

Proviso funded activities: This is a maintenance level funding request to assist counties implement onsite sewage system management plans and enhance electronic databases to inventory onsite sewage systems.

Expected Results:

1. Enhanced capacity of local jurisdictions to design and implement effective and comprehensive programs using a range of regulatory and non-regulatory approaches.
2. 12 local health jurisdictions are implementing onsite sewage program management plans approved by Health.
3. The number of local health jurisdictions with the data available to inventory and map onsite sewage systems in priority marine areas increases from 0* to 6_.

** Maintenance level funding request totaling 1,158,000, not requested as a PS Plan proviso. Total for this activity in 05-07 was slightly higher, 1,300,000 (700,000 GF-S; 600,000 ALEA), to accommodate start up costs.

*Marine Recovery Areas yet to be designated

Department of Natural Resources

Agency: Natural Resources

Budget code title: Nearshore Habitat Monitoring

Total proposed funds: \$1,720,050

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-01	1,652,050		68,000	ALEA	Priority 5 Strategy 5 e, f, g, h	MR

Program description: This program is part of a larger monitoring effort, the Puget Sound Monitoring and Assessment Program, that identifies multiple indicators to track the health of the Puget Sound. This component monitors the status and trends of nearshore habitats (the shoreline). We are initially focusing on several plant species, (*Zostera marina*, and floating kelp species *N. luetkeana* and *M. intergrifolia*) and the structure of intertidal biotic communities as indicators of nearshore habitat health. The program was enhanced in the 2005-07 biennium to include site-specific monitoring in an attempt to link environmental stressors with eelgrass health. The proposed 2007-09 budget enhancement is to cover ongoing site-specific equipment needs as additional sites are added to the site-specific monitoring program

Proviso funded activities:

- DNR tracks status and trends in eelgrass extent in Puget Sound yearly, and completes focus studies within each region every 5 years as part of a long-term program to monitor eelgrass condition.
- DNR expands its eelgrass monitoring to study linkages between eelgrass bed dynamics and stressors.
- DNR tracks status and trends in floating kelp abundance throughout Puget Sound as part of a long-term monitoring project.
- DNR tracks biodiversity in intertidal biotic communities in central and southern Puget Sound and completes collaborative research with University of Washington on processes related to observed patterns in intertidal biodiversity.

Expected Results:

- Eelgrass status and trends are monitored annually throughout Puget Sound and focused studies are completed in two regions.
- The effects of stressors on eelgrass abundance and distribution are evaluated at two sites.
- The status and trends in floating kelp abundance and distribution are tracked.
- Biodiversity in intertidal biotic communities in central and southern Puget Sound is tracked.

Agency: Natural Resources**Budget code title:** Management of Wetlands**Total proposed funds:** \$36,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-02	\$36,000			GF-S	Priority 4 Strategy 1 Result a	EM MFH

Program description: DNR Natural Areas Program manages sites to retain natural features and ecological function.

Proviso funded activities: Continue site visits and management by regional personnel and volunteers to wetland sites in Puget Sound Trough, including Bald Hills Natural Area Preserve (NAP), Cypress Island NAP/Natural Resource Conservation Area (NRCA), Dabob Bay NAP, Daily Prairie NAP, Kennedy Creek NAP, Kings Lake Bog NAP, Shumocher Creek NAP, Snoqualmie Bog NAP, Skookum Inlet NAP, and Woodard Bay NRCA. Continue and increase the level of hydrologic monitoring at these sites and assess wetland functions (using Ecology's Wetlands Functions and Values Assessment Protocol).

Expected Results: Wetland sites in Puget Sound Trough will be protected.

Agency: Natural Resources**Budget code title:** State-owned Aquatic Land Cleanup**Total proposed funds:** \$191,400

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-03		170,000	21,400	STCA	Priority 1, Strategy 1, Result g	S, SH

Program description: The Puget Sound Initiative was funded in the Department of Natural Resources (DNR) fiscal year 06 supplemental budget, using the Aquatic Lands Enhancement Account (ALEA). This proposal requests that the funding be changed to the State Toxics Control Account (STCA). The focus of the Puget Sound Initiative is on cleanup; traditionally, environmental cleanup actions have been funded by STCA while aquatic resource management, restoration and protection activities have been funded by ALEA. The state's Puget Sound Initiative is largely funded by STCA.

This portion of the Puget Sound Initiative, jointly carried out by DNR and the Department of Ecology (DOE), targets contaminated aquatic sites where early cleanup and source control actions will foster recovery of aquatic species and habitats for restoration. The selected pilots integrate aquatic cleanup with adjacent upland source removal and source control. The work is carried out through a combination of direct actions by the

10-3-06

Action Team – PS Council Review Draft

state, contributions from potentially liable parties and through interagency agreements with affected local governments and resource agencies.

Proviso funded activities: None

Expected Results: Because this request does not propose an increase in funding, but rather shifts funding from ALEA to STCA, the performance is expected to remain the same as originally proposed.

New Result:

1. Facilitate process to reopen, completely or partially, shellfish tracts in Dumas Bay:
Tract #9950: size, estimated pounds are not yet available;
Tract #10400: 106 acres, 5 miles of linear shoreline; 3.8 million pounds of geoducks.
2. Facilitate water quality monitoring to reopen shellfish tracts, including tracts #9950 & 10400 (now through end of FY 2009; 2.5 to 3 year process)
3. Facilitate Toxics Sampling
4. Water Quality Sampling: 30 samples; 2.5 - 3 year process.
5. Facilitate a Shoreline Survey: Determine pollution sources of in Dumas Bay: failing septic, storm water, nonpoint source pollution.
6. Develop relationships and engage stakeholders (tribes, DOE, DOH, PUD, King County, federal agencies.)
7. Confirm extent of contamination on state-owned aquatic lands and develop remedial alternatives for clean up.

Agency: Natural Resources

Budget code title: Deepwater Geoduck and Sea cucumber Molluscan Study Phase III

Total proposed funds: \$650,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-04			\$650,000 Reappropriate full amount	SBCA	Priority 4 – Hood Canal Strategy 3d	MR

Program description: The 2005 Legislature approved a \$650,000 capital appropriation for Deep Water Geoduck and Sea Cucumber Population Surveys. DNR has collaborated with the Department of Ecology and the Hood Canal Salmon Enhancement Group to gather information on geoduck health, distribution and ecologic function within Hood Canal. This request for capital reappropriation would fund continuation of the project to include population surveys for geoduck and sea cucumber in Hood Canal.

Proviso funded activities: None

Expected Results: Priority 4 Special Project Area: Hood Canal

Two main objectives of the project are to determine:

- Population of deepwater geoduck in Hood Canal
- Population of deepwater sea cucumbers in Hood Canal

10-3-06

Action Team – PS Council Review Draft

Agency: Natural Resources

Budget code title: Invasive Species Council Participation

Total proposed funds: \$50,000**

Budget Code	Continuing proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-05			50,000**	GF-S	Priority 6 Strategy 4 Result d	AQ

***This is the Puget Sound portion of a \$245,000 statewide proposal.

Program description: With the passing of SB 5385 (Invasive Species Council) in the 2006 legislative session, the Governor and Legislature recognized the growing threat of invasive species to Washington's economic and environmental health. The bill also recognized DNR as a key player in statewide invasive species management. DNR's Aquatic Resources Program is a lead agency involved in invasive species management, in such areas as spartina control, noxious weed management on agricultural and timber lands, responding to forest pest outbreaks, and invasive species management on Natural Areas Preserves (NAPs) and Natural Resource Conservation Areas (NRCAs). This budget enhancement would fund a portion of an Aquatic Resources Staff person to represent DNR on the Statewide Invasive Species Council.

Proviso funded activities: None

Expected Results: Comprehensive multi-agency approach to invasive species management statewide.

Agency: Natural Resources

Budget code title: **Statewide** Estuarine Restoration Projects

Total proposed funds: \$200,000***

Budget Code	Continuing proviso Funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-06			200,000***	ALEA	Priority 1f Priority 4: 1a Priority 6: 1a, c	MFH

*** This is the Puget Sound portion of a \$300,000 package for statewide restoration projects.

Program description: This Capital budget proposal would continue Aquatic Lands Enhancement Account (ALEA) capital funds dedicated toward restoration of state owned aquatic land. Each of the two Aquatics districts located in the Puget Sound would utilize \$100,000 to leverage other funds to conduct restoration projects. The program plans to continue and expand 2005-07 biennium partnerships, working cooperatively with the Marine Resource Committees, Hood Canal Salmon Enhancement Group, Port of

10-3-06

Action Team – PS Council Review Draft

Bellingham, Washington State Parks, Washington Department of Fish and Wildlife (WDFW) and groups in Commencement Bay.

Proviso funded activities: None

Expected Results:

- Gig Harbor Parks and Eelgrass restoration in Pierce Co., aquatic land and shellfish restoration in Thurston Co., Concrete removal project in Kitsap Co., and several aquatic resource restoration projects in King County.
- Continue to develop partnerships as well as work with current partners to enhance locally driven aquatic land restoration efforts during the 2007-2009 biennium.
- Funds will also be utilized for soft shore stabilization, native shellfish restoration and enhancements, restoration of pocket and tidal estuaries, as well as creosote debris if adequate funding through the Puget Sound Initiative is not available.
- Beach restoration following winter 2006-2007 removal of the derelict A-Frame dock in Port Angeles.
- Restoration of Cliffside Beach in Bellingham Bay. Removal of large accumulations of woody material along this beach that have reduced habitat quality in a key area adjacent to the Nooksack River estuary.
- Partner project with dive community to remove tire reefs in several sites that may include: Keystone and Langley (Whidbey Island), and possibly sites in Hood Canal or Edmonds (depending on cost).

The overall goal centers on the restoration of nearshore processes and function from a local perspective with the long-term goal of ecosystem connectivity.

Agency: Natural Resources

Budget code title: PSI Creosote Removal

Total proposed funds: \$4,000,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-07			4,000,000	STCA	Priority 1 Strategy 1 Result d, e, f	NP

Program description: The proposed 2007-09 capital project is a continuation of efforts to remove derelict creosote-treated pilings and debris from the marine and estuarine waters and shorelines of Puget Sound including Georgia Basin, Strait of Juan de Fuca, and Puget Sound proper. It is anticipated that the 2006-2007 initial phase of this effort will remove a minimum of 3,100 tons of materials from four to six sites throughout Puget Sound.

The removal of these materials will reduce toxic contributions to the water and sediments of the Puget Sound region. Polycyclic aromatic hydrocarbons (PAHs), the primary components of creosote, have been found to have lethal and sublethal effects on marine organisms such as herring embryos and English sole, and have also been shown to accumulate in the tissues of some bivalves. Derelict structures such as old docks, bulkheads, piers, log boom pilings, and dolphins remain in our waters and

10-3-06

Action Team – PS Council Review Draft

continue to leach creosote into the water as well as break apart only to wash onto the beaches and into sensitive habitats such as pocket estuaries, salt water lagoons, and marshes. Creosote is carcinogenic to humans, highly flammable and often used as firewood for beach fires and by kids to build beach forts.

Proviso funded activities: None

Expected Results:

- 700-800 tons of creosote-soaked logs removed from Puget Sound beaches.
- 5000 Tons creosote pilings removed from Puget Sound Marine environment

Agency: Natural Resources

Budget code title: ESA – HCP Planning

Total proposed funds: \$1,134,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-08		644,000	490,000	ALEA	Priority 5 Strategy 1 Result d	MFH

Program description: This proposal would fund the federal Endangered Species Act (ESA) project to completion, allowing the Department of Natural Resource's (DNR) and the United States Fish & Wildlife Service (USFW) to negotiate a final outcome, likely a Habitat Conservation Plan (HCP). The HCP would cover those activities that are least covered under existing ESA compliance methods, that are within Washington DNR's jurisdiction, and that have the greatest potential to cause take.

This project would ensure that DNR activities comply with the ESA by: reducing DNR's liability under the act, assuring that DNR is not liable for the "taking" of endangered species, and providing a consistent and predictable basis for managing the use of state-owned aquatic lands. For activities that are covered by DNR's ESA compliance plan, users of state-owned aquatic land would be assured that their actions would be in compliance with the ESA. Further, from the state owned aquatic land users' point of view, consistency and predictability provides a "level playing field" from which to conduct their businesses. This will ensure predictability for potential users and will enable DNR to protect aquatic species and habitats associated with the bottom marine environment at a landscape scale rather than on a site-by-site basis.

Proviso funded activities: None

Expected Results:

Protection of ESA-listed species and habitats, potentially affected by DNR management actions.

Agency: Natural Resources

Budget code title: One-time DVRA Appropriation Increase

Total proposed funds: \$450,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-09		1,037,000	\$450,000	DVRA	Priority 6 Strategy 1 Result g	MFH

Program description: The 2002 Legislature passed Engrossed Substitute House Bill 2376 which provides the authority for state and local government to address problems associated with derelict and abandoned vessels. It gives the Authorized Public Entities (APE's) the legal authority to seize, remove and dispose of derelict vessels and provides a funding mechanism to use when taking these actions.

The Department of Natural Resources (DNR) has removed vessels as an authorized entity as well as managing the fund, reimbursing local entities for the removals they have conducted.

There are approximately 100 vessels on the Derelict Vessel Inventory and, to date, removal efforts have managed to keep that number from rising. However, the total has generally remained static. This was one of the reasons that DNR supported the legislative changes that were passed in 2006 to increase reimbursement to authorized public entities (from the DVRA) to 90%. Participation from non-DNR public entities is anticipated to increase due to the legislative change. Currently, several cities, counties and port authorities have identified and begun custody proceedings on vessels that will later qualify for reimbursement. This fact, in combination with DNR's recent actions on three large derelict vessels, will encumber the DVRA to nearly its full allotment by the end of the 05-07 biennium.

This is a one-time funding request to increase the appropriation for the Derelict Vessel Removal Program (DVRP) to access available fund balance. Revenue and expenditures in the 05-07 biennium are projected to result in a \$630,000 fund balance by June 30, 2007. A one-time \$450,000 increase to the appropriation would be supportable by the fund, allowing DNR to remove 26 more derelict and abandoned vessels.

Expected Results:

Remove an additional 26 derelict vessels from the marine environment.

Agency: Natural Resources

Budget code title: Aquatic Reserves Baseline

Total proposed funds: \$50,000

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-10			50,000	ALEA	Priority 5 Strategy 1 Result c, e	MFH

Program description: This proposal will establish baseline information on each aquatic reserve with a completed management plan. This information is necessary to guide the specific restoration, acquisition, and other actions recommended in the Reserves' management plan. DNR funding will be leveraged against various grant opportunities in cooperation with other partners from the public, private and educational sectors. These partners, in coordination with existing DNR staff, will gather significant portions of the baseline information.

This proposal will help protect and manage unique and sensitive aquatic species and habitats located within four aquatic reserves, while allowing for compatible uses inside the reserve.

The following examples are illustrative of baseline research data that will be collected by the DNR and its partners at the designated aquatic reserves.

Proviso funded activities: None

Expected Results:

- Designation of 1 additional aquatic reserve by DNR during the course of the biennium.
- DNR provides an environmental baseline or starting point that can be measured against as the adaptive management plans are implemented for each reserve.

Agency: Natural Resources

Budget code title: Aquatic Marine Station

Total proposed funds: \$400,220

Budget Code	Continuing proviso funds	Continuing Other Funds	Proposed adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DNR-11			400,220	State Building Construction Account	Role of Science – Strategy 1	MR

Program description: The Department of Natural Resources' proposes this one-time capital funding request to convert the Marine Station at Gull Harbor near Olympia from its current unused status to a shoreline public access site and a site where multiple state agencies can support their marine-oriented operational activities fostering a more

10-3-06

Action Team – PS Council Review Draft

efficient and effective implementation of Puget Sound Partnership activities in Southern Puget Sound.

DNR currently has a reappropriation of \$40,000 of 03-05 funds that will allow installation of boathouses on the upper level of the site. Additional funds are needed to install a connected water and septic system and to address soil contamination from a former heating fuel tank. The capacity of this system will allow for up to 8-12 workstations to be utilized by DNR Geoduck Program staff and other agencies either on a permanent basis or available for drop-in use.

The following have expressed interest in co-locating some of their equipment and vessels at the marine station if the site could accommodate them: Washington State Parks and Recreation Commission, Department of Health, Department of Fish and Wildlife, Department of Transportation, North Olympia Fire District #7, and Thurston County Sheriff.

Proviso funded activities: None

Expected Results: This proposal is expected to support several of the Conservation and Recovery Plan priorities by providing a multi-agency waterfront facility in Southern Puget Sound to support their marine operational activities. The site would also be used as a shoreline public access site.

State Parks and Recreation Commission

Agency: State Parks and Recreation Commission

Budget code title: Marina and boater grants program

Total proposed funds: \$925,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PRC-01		925,000		GF-F Capital	Priority 4:, 2a,b, and f	MB

The Statewide Boat Sewage Disposal (pumpout) Clean Vessel Program is a federally funded program through the Fish & Wildlife Service. The purpose of the program is to assist the public and private marinas in establishment or replacement of recreational boat sewage disposal facilities.

Proviso funded activities: Proviso funds will be used to fund new or replaced boat sewage disposal (pumpout) facilities at various public and private marinas throughout the state.

Expected Results: To award approximately \$925,000 in Clean Vessel grants to 40-50 public and/or private marinas to install or replace pumpouts and/or dumpstations. The amount of sewage will increase as existing facilities are improved or renovated, and new facilities are added to the statewide network of pumpouts.

Agency: State Parks and Recreation Commission

Budget code title: Environmental education for boaters

Total proposed funds: \$266,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PRC-02	\$191,000			ALEA	Priority 4: 5a	MB
		\$75,000		GF-F	Priority 4: 5a	MB

Program description: The program is responsible for coordinating efforts to reduce the pollution related to recreational boating activities in Washington's waters.

Proviso funded activities: The education and information portion of the program produces educational materials and develops public information to further promote environmentally responsible recreational boating.

Expected Results: Supply maps at 150 boater access destination sites showing boaters locations of pumpout facilities in Puget Sound. Provide an environmental education map/large interpretive display to make the boaters aware of the major environmental issues in Puget Sound. Distribute environmental information to boaters in partnership with Puget Sound Keeper Alliance and the local marine law enforcement.

10-3-06

Action Team – PS Council Review Draft

Agency: State Parks and Recreation Commission

Budget code title: Wastewater Management and Water Conservation

Total proposed funds: \$23,130,018

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PRC-03	5,620,000			Hood Canal Aquatic Rehab Bond	Priority 4 Strategy 2 Result e; Hood Canal 1f	OSS
	7,326,903		10,183,115	State Building Const Acct	Priority 4 Strategy 2 Result e; Hood Canal 1f	OSS

Program description: This project will provide upgrades to current wastewater treatment to eliminate contaminated ground and surface waters that potentially discharge into the Puget Sound and Hood Canal.

Proviso funded activities: Parks is working with neighboring communities, DOH and DOE to replace aging and failing septic systems and drainfields at parks around the Sound using new technologies. Where feasible, Parks will hook up with local municipal wastewater treatment facilities.

Expected Results:

1. Where feasible, parks will hook up to local municipal wastewater facilities.
2. Park-wide improvements to include sewer hookups to existing facilities, hook additional park facilities up into the park-wide wastewater treatment system, drainfields, and upgrade or replace outdated comfort stations using conservation technologies as appropriate.

Agency: State Parks and Recreation Commission

Budget code title: Stormwater

Total proposed funds: \$1,844,800

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PRC-04			1,844,800	State Building Const Acct	Priority 3, Strategy 3: e	SW

10-3-06

Action Team – PS Council Review Draft

Program description: This project will address storm water management within the parks along the Puget Sound and Hood Canal using Low Impact Development technologies.

Proviso funded activities: Storm water runoff comes from rain or snow that falls on streets, parking areas, rooftops and other developed land that subsequently flows directly into the sound or is routed there through drainage systems, streams and rivers. Pollutants are picked up and transported to the receiving waters.

Expected Results: Using Low Impact Development technologies, manage storm water so there is no direct discharge into the Puget Sound and Hood Canal, directly or indirectly through drainage systems, streams and rivers.

Agency: State Parks and Recreation Commission

Budget code title: Habitat Improvement

Total proposed funds: \$4,000,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PRC-05			4,000,000	SBCA -Cap	Priority 6 1a and 1e	

Program description: Funding restoration projects in various parks will improve nearshore and aquatic habitats, and help the state lead the effort to model “Sound-friendly” development.

Projects will include park specific restoration projects, resource enhancement activities to improve fishing and shellfishing opportunities in parks, facility renovation to lessen the impact of the built environment on the natural environment, funding to improve fish passage in aquatic environments, and sediment treatment in select parks.

Proviso funded activities: Currently there are no proviso funded activities under this budget code.

Expected Results: Results should link to progress on a Puget Sound priority and should refer to at least one result at the end of this file. Agencies may include results and outputs at a finer level of detail than those under Priorities and Strategies. Please include quantitative targets and outputs where possible.

Priority 1: State Parks will clean up sediments contaminated with wood waste from old log dumps in __ state parks. Wood waste in marine systems reduces near shore productivity which can impact shellfish and forage fish populations.

Priority 5: State Parks will protect, through acquisition, shorelines that serve important salmonid nursery habitat.

10-3-06

Action Team – PS Council Review Draft

Priority 6: State Parks will work with local enhancement groups and restore degraded nearshore and aquatic habitat in selected parks. Restoration will improve __ acres of habitat for shellfish and salmon and improve accessibility on __ miles of streams. (Set targets in June 2007)

Priority 6: State Parks will improve salmon habitat and unimpeded stream flows constituting 6 acres (Phase I 2006) and 4 acres (Phase II 2007-2009) at Belfair, and is working with King County to improve __ acres at Flaming Geyser/Green River Gorge.

Public Involvement and Education: All projects listed will include interpretive elements to highlight how the state is leading the way to model “Sound-friendly” development.

The role of science: State Parks is coordinating its efforts for restoration with salmon lead entity groups, tribes, agencies with environmental expertise, and according to established and peer-reviewed recovery plans.

Agency: State Parks and Recreation Commission

Budget code title: Toxics and Creosote Removal and Structure Replacement

Total proposed funds: \$4,272,085

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PRC-06	300,000			Hood Canal Aquatic Rehab Bond	Priority 1, Strategy 1: e and f	S
			3,972,085	State Building Const Acct	Priority 1, Strategy 1: e and f	S

Program description: This project removes abandoned creosoted piles and replaces necessary structures with environmentally friendly materials. Replacement would include bulkheads, piers, piles, and floats at parks along the Puget Sound and Hood Canal.

Proviso funded activities: In partnership with Department of Natural Resources, Parks is removing creosoted log debris at parks along the shores of the Puget Sound and Hood Canal. 2007-09 funding will continue the effort to remove or replace in-water structures originally constructed with toxic treated wood preservatives.

Expected Results: Contaminated structures are either removed or replaced with non toxic, environmentally friendly materials.

Puget Sound Action Team Staff

Agency: PSAT staff

Budget code title: Coordinate the work of the Puget Sound Action Team and Council

Total proposed funds: \$511,100

Budget Code	Continuing Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PSAT-01	375,000			WQA	Coordinate PS efforts S1, a-d and S2, a-b, S4,a	Estuary Management, all programs
	135,500			GF-F		

Program description: Lead, coordinate and define the work of the Puget Sound Action Team (Action Team) and Council to implement the Puget Sound management plan and biennial work plans and report on progress.

Proviso funded activities: Convene the Puget Sound Action Team and Council meetings as required in statute, as well as management team meetings. Lead and coordinate efforts to implement and report on progress on the Puget Sound priorities and results. Lead and coordinate updates of the Puget Sound Management Plan and 2009-2011 biennial plan. Provide staff support to the Action Team and Council.

Expected Results:

- Information to identify and address existing and emerging conservation needs of Puget Sound is provided to a range of audiences including federal and state agencies, tribal and local governments, the governor and legislature, media and citizens.
- The Action Team's management team oversees implementation of the 07-09 plan, reviews progress and identifies and addresses barriers to progress and any emerging issues and opportunities.
- A progress report on implementing the *07-09 Puget Sound Conservation and Recovery Plan* is submitted to the governor, the legislature and the public by December 2008.
- PSAT staff maintains a web-accessible database linked to a Geographic Information System for Puget Sound with information to show progress in priority areas.
- The 2009-2011 *Puget Sound Conservation and Recovery Plan* and proposed budget is developed by November 2008.
- The *Puget Sound Water Quality Management Plan* is updated to incorporate salmon recovery and other plans and identifies meaningful, comprehensive targets and timelines for Puget Sound conservation and recovery.
- The Puget Sound Council advances Puget Sound priorities among their constituents and advises the Action Team.

Agency: PSAT-02

Budget code title: Technical assistance and policy guidance on Puget Sound environmental priorities

Total proposed funds: \$1,509,500

Budget Code	Proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-02	1,125,600			WQA	Coordinate PS efforts S2 a.b. S3, a-d.S5a	AG. AQ, FP, MB, MFH, NP, OSS, M&I, PS/GB, S, SH, SP, SW, MR
	383,900			GF-F	P2.S2.l, S5.a P3.S2.a-c, S3.c, S8.b; P4.S2.g, S5.a; HC.2a.3a P5.S2.c,g,h; S3.a.b; S4.e, S5.b, S6.a-b P6.S5. b-d P7 Shellfish, b P8-4b	

Program description: Action Team program managers lead interagency work around core priorities. This includes developing and implementing a strategic approach, planning, and tracking implementation of the management plan and biennial plans, and reporting on progress through the Government Management and Accountability Program (GMAP) and other processes.

Proviso funded activities: Action Team program staff monitor current and emerging environmental issues in Puget Sound; participate in significant policy and program development; seek and promote practical solutions to environmental problems; and work to find alternatives to activities that may harm Puget Sound's marine and freshwater environments. Staff members provide technical assistance, support demonstration projects, coordinate interagency efforts to deliver consistent information and improved services, participate in regional initiatives, and support and enhance the work of partner agencies. They develop and offer tools, guidance and resources to help local and tribal governments, citizens and businesses address priority conservation issues.

Expected Results:

- Interagency teams led by PSAT staff integrate efforts across state programs to achieve progress in each of the priority areas.
- Building upon Ecology's pharmaceutical and personal care (PPCPs) product literature survey and county drug take back programs, partners will be convened to develop a statewide strategy to reduce the release of PPCPs in the marine environment.
- The number of local governments adopting the elements of the Puget Sound comprehensive local stormwater management programs increases by 20 percent. (PSAT)
- Low Impact Development (LID) projects funded under the LID grants program are tracked, and reports on the projects are available. (Ecology will track projects and PSAT will analyze and disseminate information on them.)
- Four local governments adopt or revise regulations to allow for or encourage the use of LID techniques.

10-3-06

Action Team – PS Council Review Draft

- The LID Technical Guidance Manual for Puget Sound is updated, based on monitoring results and research. (PSAT, WSU Extension)
- Thurston County receives assistance to implement the results of the Henderson Inlet watershed stormwater pilot project. (PSAT, EPA)
- The interagency Memorandum of Agreement guiding state agency responses to shellfish closures and threatened shellfish areas is updated. (PSAT, Health, Ecology, WSDA)
- PSAT staff serves as the lead for the state to coordinate with other partners working to correct Hood Canal's low dissolved oxygen problem.
- Science is used to inform corrective actions in Hood Canal and to evaluate the effects of nutrient change on dissolved oxygen as coordinated by the Hood Canal Dissolved Oxygen Project (HCDOP). (HCDOP partners, PSAT as state lead)
- PSAT staff serves on the Steering Committee of the Puget Sound Nearshore Project and as the co-chair of the Implementation Committee to achieve regional-scale restoration of Puget Sound nearshore processes.
- Updated guidelines for Puget Sound-friendly nearshore development are provided to property owners. (Ecology, WDFW, PSAT, other agencies)
- Whatcom County receives assistance to implement results of the Birch Bay stormwater and watershed protection pilot project. (PSAT, EPA, Ecology, WDFW, CTED)
- Local watershed groups receive information on regional changes in land cover and impervious surfaces to use in planning and protection efforts. (PSAT, EPA)
- PSAT staff provides policy and technical support on invasive species as a member of the Executive Committee of the Aquatic Nuisance Species Committee and as staff and chair for the state Ballast Water Work Group.
- Protections for at-risk marine bird species are incorporated into Shoreline Master Program updates in 10 jurisdictions. (PSAT, Ecology)
- A system to monitor and report on regional climate and ecosystems for ongoing changes is developed with an adaptive management loop to incorporate monitoring findings into management and planning decisions.

Agency: PSAT staff

Budget code title: Outreach to Puget Sound governments and communities on environmental priorities

Total proposed funds: \$1,389,800

Budget Code	Proviso funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PSAT-03	1,035,500			WQA	Coordinate PS efforts S1.d, S3.a,d, S4a-d; P3 Env. Result, S2.a-b, S8.b; P5 S2.c & h; S3.a; S5.b; S6.a; P7Marine birds d; P8 S2.b	EM, SW, OSS, SH, MFH, AG, NP, WP, EPI
	354,300			GF-F		

Program description: Provides outreach, technical assistance and coordination among agencies and other entities to advance progress on priorities, primarily through Regional Liaisons located in remote offices in communities around the Sound.

Proviso funded activities: Staff members, especially those assigned as Regional Liaisons, work with staff and elected officials of Puget Sound's local and tribal governments, businesses, trade associations, watershed, environmental and community groups and citizens to promote progress on PS Plan results. Outreach efforts target local programs for stormwater and on-site sewage system management, land use and watershed planning, and pollution prevention, restoration and protection activities. Action Team staff develop and provide information materials, arrange support from partner agencies and organizations, provide technical and policy support, and organize, participate and facilitate in various processes and events.

Expected Results:

- Action Team staff provide local and tribal governments, watershed groups, developers, and a variety of stakeholders with information, technical assistance and alternatives to protect and restore Puget Sound's marine and freshwater environment.
- At least one shellfish growing area threatened or degraded by stormwater runoff is upgraded or protected. (Health, PSAT, Ecology)
- The number of local governments adopting the elements of the Puget Sound comprehensive local stormwater management program increases by 20 percent during the biennium.
- Assistance is provided to 25 jurisdictions to help them link salmon recovery efforts, land use planning, or watershed planning to stormwater programs.
- 75 percent of local governments will provide stormwater public education and involvement opportunities to citizens.
- Local governments receive technical assistance and inventory data to update critical areas maps as new science becomes available for effective critical areas ordinance implementation. (PSAT, WDFW, Ecology, CTED, DNR)
- Local watershed groups receive resources and guidance to integrate watershed, salmon recovery and other plans to carry out actions effectively, and to evaluate and adapt actions as they manage watersheds. (PSAT, all agencies)
- Shoreline landowner workshops are held in 10 counties to build stewardship behaviors that protect and restore habitats.

- Local conservation groups and the public receive education on issues related to at risk marine birds. (PSAT, WDFW)
- Key individuals in federal, state, local and tribal agencies identify how a climate change risk-assessment model meets their needs and 20 percent apply the model to drafting risk-assessment plans for their areas of responsibility.

Agency: PSAT staff

Budget code title: Inform and engage people in Puget Sound conservation and recovery

Total proposed funds: \$1,538,600

Budget Code	Proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-04	1,344,800			WQA	Education and communication supports all priorities	All programs
	193,800			GF-F		

Program description: PSAT staff is a regional leader in education and communication efforts to educate and involve citizens around Puget Sound priorities. Education and communications activities provide information about Puget Sound, its issues and the Action Team structure to various audiences. A percentage of education funds are distributed through the Public Involvement and Education (PIE) funds community-based education to engage the public around Puget Sound priorities. Action Team staff promotes public awareness through communications strategies with Action Team agencies and other partners to develop and deliver messages.

Proviso funded activities: Activities include 1) building strategic partnerships and support for regional environmental education for all audiences such as students, adults, community and business groups, and others; 2) administering funding through the Public Involvement and Education (PIE) program and providing support for community-based education that directly educates and engages citizens in efforts around environmental issues facing Puget Sound; and 3) developing communications tools and publications for Action Team staff and interagency Action Team efforts to advance progress on environmental priorities and to explain the role of the Action Team and Council. Communications activities include media releases and events, coordination with communication specialists from partner agencies, producing high-quality publications such as the *Sound Waves* newsletter and *State of the Sound* report, and the Action Team website.

Expected Results:

- Funding for Public Involvement and Education (PIE) program projects is provided to governments, community groups, businesses, organizations and individual. PIE projects reach nearly 400,000 citizens with education directed at behavior change and to raise awareness around priorities.
- Resources are provided to support Puget Sound education in schools in partnership with the Office of the Superintendent of Public Instruction.

- Throughout Puget Sound, citizens engage in public education and involvement opportunities that change behavior and result in actions to reduce nutrient and pathogen pollution and to increase beneficial uses of state waters, including safe harvest of shellfish. (PSAT, WSU Extension, Sea Grant)
- 75 percent of local governments will provide stormwater public education and involvement opportunities to citizens. (PSAT)
- 1,500 residents receive information about corrective actions in Hood Canal and resources to help them adopt behaviors that will protect the Canal. (WSU Extension, Sea Grant, PSAT)
- The public is informed about activities and progress in Hood Canal efforts through eight quarterly newsletters, two Hood Canal Forums, and an updated Web site. (PSAT)
- The Puget Sound community is provided with accurate, relevant and accessible information on the status of the Puget Sound ecosystem, issues related to the health of the ecosystem, and activities of the Puget Sound Action Team and Council.
- Issues of *Sound Waves* newsletter, ongoing informational website, electronic and written publications.
- Press releases and coordination with Action Team agencies on interagency messages.
- *State of the Sound* report in December 2008.

Agency: PSAT staff

Budget code title: Coordinate, communicate and facilitate Puget Sound science.

Total proposed funds: \$399,000

Budget Code	Proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-05	302,500			WQA	Role of Science, in particular 2a,b 4a; Coordinate PS efforts 2b, 3d, 4a.	MR
	96,500			GF-F		

Program description: PSAT coordinates the Puget Sound Ambient Monitoring Program for the research of individual agency investigators. PSAT staff leads steering and management committees to facilitate development and communication of Puget Sound science. PSAT advances science by funding and disseminating research and convening scientists around regional scientific questions to fill gaps in research, address emerging issues, and provide accurate information to decision makers.

Proviso funded activities: Lead and coordinate PSAMP activities, compile and write the *Puget Sound Update* and co-chair the 2009 Puget Sound/Georgia Basin research conference. Science staff also works with program, education, outreach and communication staff to translate scientific findings into information used by managers and decision-makers to address key management issues. Geographic Information

10-3-06

Action Team – PS Council Review Draft

Systems staff assists in this effort and works regionally to provide accessible, useable information on Puget Sound status, trends, and conditions.

Expected Results:

The Puget Sound community is provided with accurate, relevant and accessible information on the status of the Puget Sound ecosystem, issues related to the health of the ecosystem, and activities of the Puget Sound Action Team.

- Action Team staff maintain a web-accessible Geographic Information System database for Puget Sound with information to support and show progress in priority areas.
- Information from monitoring the ongoing status and trends is used to determine if conditions are improving or declining for forage fish, ground fish, marine birds, eelgrass, sediments and water quality and other components of the Puget Sound ecosystem.
- Data from status and trends monitoring is used to watch for 'red flags' (e.g. species declines, deteriorating water quality and habitat degradation) and, with federal state and local agencies to launch diagnostic studies on red flag issues in a timely manner.
- Research and monitoring results are disseminated to managers via technical publications, PSAT newsletters, meetings and workshops, a spring 2008 Forum on Toxics in Puget Sound, and the 2009 Puget Sound-Georgia Basin research conference. (PSAT)
- PSAMP 'open house' meetings are conducted 3-4 times per year for stakeholders and the general public to engage with PSAMP committee members on key science issues.
- Implications of scientific results are presented for adaptive management of Puget Sound ecosystems.

Agency: PSAT staff

Budget code title: Puget Sound Partnership Communication, Education and Outreach Campaign

Total proposed funds: \$2,500,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
PSAT-06			2,500,000	GF-S	All priorities Coord PS efforts 5b and c	EPI

Program description: The Governor has directed the Puget Sound Partnership (Partnership) to broadly engage citizens in the work to achieve a healthy Puget Sound by 2020. This request will provide state funds to match private donations for an information and behavior-change campaign to support the efforts to clean up Puget

Sound. Public opinion research reveals that a majority of people do not understand the seriousness of the challenges facing Puget Sound's health. This campaign will build public awareness about Puget Sound's conservation and recovery issues and then start to change the public's behavior by means of a long-term, comprehensive communication, education and outreach campaign.

Proviso funded activities: Funds will be used to produce and distribute various communication vehicles for the information campaign; organize and manage a 12-county Puget Sound Communications, Education and Outreach Network; create and maintain a Puget Sound Clearinghouse for the Network; coordinate with local and regional groups to build and support a 12-county corps of citizen/student volunteers through the Network; and, distribute funds (if available) to Network members through a small-scale competitive funding process for help with localization of campaign messages and activities.

Expected Results:

Puget Sound Action Team (PSAT) staff will work with a volunteer steering committee comprised of government agencies, non-profits, Tribes and academic institutions to:

1. A Soundwide public information campaign in partnership with non-profit organizations and local partners to support long-term efforts to clean up Puget Sound. Contract with qualified communications firms to produce and distribute various communication vehicles for the information campaign, including a Web site, regular print and electronic newsletters, direct mail pieces, public service announcements, posters, a field guide to Puget Sound, television and radio commercials, print advertising and other methods.
2. Establish the infrastructure for and provide ongoing coordination and support for a Puget Sound Communications, Outreach and Education Network.
 - a. Create and maintain a Puget Sound Clearinghouse for the Network--a centralized database of volunteer and education opportunities, and campaign resources such as talking points, presentations, underlying science, common messages, shared logos and branding materials.
 - b. Coordinate with local and regional groups to build and support a 12-county corps of citizen/student volunteers through the Network to engage broad audiences of people in hands-on work to protect and restore Puget Sound.
 - c. Distribute funds (if available) to Network members through a small-scale competitive funding process for help with localization of campaign messages and activities for their communities.

10-3-06

Action Team – PS Council Review Draft

Agency: PSAT staff

Budget code title: Low Impact Development Local Ordinance Development and Training

Total proposed funds: \$550,000

Budget Code	Proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-07			550,000	GF-S	Priority 3 - Strategy 3 - a and d	SW

Program description: Low impact development (LID) practices represent a new set of tools and practices that can significantly improve management of stormwater. Because the techniques are new, many local governments are not structured to facilitate LID practices and members of the development and engineering communities and local government staff lack critical knowledge and skills for how to properly design, build, inspect, and maintain LID practices. PSAT promotes LID through publications, workshops, technical and policy guidance, assistance to local governments, presentations to the public, and support for demonstration projects and research on the effectiveness of LID techniques.

Proviso funded activities: The funding requested would provide two types of LID assistance: 1) direct technical assistance to help local governments revise their ordinances and development standards to allow for LID projects as a matter of course rather than a special exception; and 2) focused, in-depth training for landowners, contractors, engineers, and local government staff on LID techniques and practices

Expected Results:

- Focused, in-depth, hands-on training for developers, engineers, contractors, and local government staff including: 1) development of curriculum for specific LID techniques (bioretention, pervious pavement, vegetated roofs, minimal excavation foundations, dispersion, rooftop rainwater catchment); 2) focused trainings on each technique that combine classroom teaching with hands on installation and maintenance of the techniques; 3) reports on monitoring and research; and 4) detailed analyses of construction specifications and techniques, cost comparisons, and maintenance requirements.
- Additional technical assistance to 24 local governments.
- At least 16 local governments adopt or revise regulations to allow for or encourage the use of LID techniques.

Agency: PSAT staff

Budget code title: Hood Canal Education and Public Involvement Funds

Total proposed funds: \$200,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-08			200,000	GF-S	Priority 4 – Hood Canal 5a & c	NP OSS SW SH AG

Program description: Continued education of residents in the Hood Canal watershed is essential to reduce pollution from human sources and improve water quality in Hood Canal. Work was begun in the 05-07 biennium as part of the State's ramped-up efforts to address Hood Canal's water quality problems. PSAT used this funding to help create, support and provide guidance for a Hood Canal-wide network of education and outreach specialists to increase the reach and effectiveness of the education efforts on Hood Canal's dissolved oxygen problems.

Proviso funded activities: This proposal will provide dedicated funding of necessary staff to support the network and implement an overall strategic education and outreach plan for Hood Canal that will be developed prior to July 2007. Emphasis will be placed on measuring effectiveness of education as a tool in changing human behavior and understanding how these changes result in reduced nitrogen and improved water quality.

Expected Results:

- Hood Canal local communities are engaged and inspired to take voluntary individual actions that will reduce pollution from human-caused sources.
- Education efforts will continue to be directly linked to ongoing research and monitoring through the Hood Canal Dissolved Oxygen Program so that the educational messages are scientifically based and updated as new information becomes available.
- A dedicated staff person will manage and coordinate this effort and initiate and sustain local network coordination, follow-through on an overall strategic plan, develop outreach and communications materials, and continue local visibility of the education efforts.

Agency: PSAT staff

Budget code title: Hood Canal On-sites Nitrogen Study and Monitoring

Total proposed funds: \$420,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-09			200,000	GF-S	Priority 4 – Hood Canal Strategy 3 e, f	OSS

Program description: Hood Canal's low dissolved oxygen condition can in part be attributed to human inputs of nitrogen from various sources. Effluent from onsite sewage systems (OSS) has been identified as a primary source of nitrogen and further research is being conducted to determine the exact scope, extent and impact of these nitrogen discharges from onsite sewage systems. Conventional onsite sewage technologies are not designed to remove nitrogen, although well maintained and sited systems do a good job in removing solids and pathogens, including fecal coliform bacteria.

Proviso funded activities: Funding is requested to continue two activities related to improving our knowledge of the functioning and pollution effects of on-site systems

around Hood Canal; and our knowledge of potential improved technologies to protect water quality and address low dissolved oxygen problems: 1) implementing Phase 2 of a two-part study to assess the pathway of nitrogen from on-site systems into marine waters and the effect of this nitrogen loading, and 2) continuing studies by the Jefferson County Health Department to assess the effectiveness of advanced on-site treatment technologies located in Mason County through long-term sampling data collection on on-site sewage system discharges.

Expected Results:

- **Phase Two of Onsite Sewage Systems Nitrogen Pathway Study.** In FY 06, phase one of a two-part study to measure nitrogen levels from OSS devices was funded to measure nitrogen levels under Hood Canal soil and seasonal weather conditions. Phase two of the study will assess how nitrogen from home sewage systems actually enters the canal's marine water, and how significant this source is to the dissolved oxygen deficit condition. The University of Washington served as the primary contractor for phase one and it is likely that they and other partners in the Hood Canal Dissolved Oxygen Program will be contracted for phase two.
- **Continuation of Jefferson County Health Department Study of onsite sewage systems in Mason County.** In 2005 and 2006, the Action Team contracted with several onsite system vendors to install several advanced treatment technologies in Mason County to demonstrate their ability to remove nitrogen under soil and geologic conditions in Hood Canal. To assess the nitrogen-removing performance of the installed devices, the Action Team contracted with the Jefferson County Health Department to collect effluent samples, arrange for laboratory testing, and evaluate the resulting data. Results from the initial work show that sampling needs to be continued over a longer time frame in order to obtain sufficient data to support valid conclusions.

Agency: PSAT Staff

Budget code title: Invasive Species Tunicate Eradication

Total proposed funds: \$330,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-10			330,000	GF-S	Priority 6 Strategy 5 b, c	ANS

Program description: Invasive non-native marine animals called tunicates have been found in Puget Sound and appear to be spreading. They threaten native and commercial species by out-competing them for space and food. In 2006, the Governor and the legislature provided \$250,000 in emergency and supplemental funds to initiate the state's response to the tunicate invasion, and to stop the spread of the invasive tunicates. That appropriation was made as one-time funding. This request seeks funds to continue tunicate eradication efforts, engage in further surveys and studies, and for other activities.

Proviso funded activities: The first year of funding was used to clean boats infested with invasive tunicates at three marinas (Neah Bay, Pleasant Harbor, Blaine) and effectively stopped these animals from spreading from those marinas to other areas of the Sound. Although the tunicates were removed from boat hulls, dive teams reported that marina docks, piers and floats had extensive coverage and the tunicates will need to be removed from these structures to prevent reinfestation of boats. (Marina structures to be cleaned are at Blaine, Semiahmoo, and Pleasant Harbor.) This funding was also used to develop informational materials for boaters, a web page and toll-free phone line to provide information about tunicates and to report the location of tunicates. Work needs to continue to better understand the scope and extent of the presence of all three varieties of tunicates in Puget Sound.

Expected Results:

- Control and eliminate established populations of the club tunicate, *Styela clava* at locations in Puget Sound. (WDFW, PSAT, DNR)
- Surveys are conducted on the scope of presence and research the effects of tunicates – with focus on the non-native *Ciona* and *Didemnum* – on native biota and state geoduck tracts.
- Less expensive and more efficient methods are developed to remove and control tunicates.
- Boaters, stakeholders and citizens are educated about ways to stop the spread of these animals
- Develop and implement a response strategy for non-native *Styela clava* (club tunicate) and *Ciona savignyi* (transparent tunicate) in Puget Sound and Hood Canal. (WDFW, PSAT, Ecology, DNR)

Agency: PSAT staff

Budget code title: Sustainable Shorelines

Total proposed funds: \$1,190,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-11			1,190,000	GF-S	Priority 5, Strategy 2, Results g, k, l	MFH

Program description: The goal of this proposal is to advance development, deployment and more widespread adoption of technologies focused on improving how the Puget Sound region protects and manages its shorelines. This overall effort will be linked to Ecology's proposal to accelerate updates of local Shoreline Master Programs (SMPs). New SMP guidelines require "soft" shoreline protection measures where feasible over traditional "hard" armoring measures. As updated SMPs are implemented in all Puget Sound shoreline jurisdictions during the next five years, landowners and the planners, marine contractors, and developers who review, design and build shoreline structures need education, guidance and training to ensure a smooth transition to the new techniques.

Proviso funded activities: The proposal will fund education and training of shoreline landowners, contractors, and local government staff on alternatives to traditional bulkheads and similar “hardened” shorelines; pilot projects to explore new techniques and test alternative approaches; identify and address institutional barriers to their installation and identify potential incentives; case studies of successful alternatives; and study of financial incentives for local governments to install natural features as part of waterfront redevelopment plans.

Expected Results:

- Guidance and training programs are developed in alternatives to “hard” shoreline armoring for state, local, tribal and federal staff and the consulting and building communities.
- Demonstration projects in “soft” shoreline alternatives are constructed and monitored for effectiveness.
- 2-4 local governments receive assistance and information to assist them with their permitting process review and updates of local SMPs to facilitate sustainable shorelines.
- A study of financial incentives is conducted for local governments to install natural process features as part of waterfront redevelopment plans.

Agency: PSAT staff

Budget code title: Puget Sound Toxics Loading and Fate

Total proposed funds: \$1,200,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-12			1,200,000	STCA	Priority 2 Strategy 5 a	MR, M & I SW

Program description: Natural resource managers are currently unable to make the most effective decisions about how to best target efforts to reduce harm from toxic chemicals in Puget Sound without additional information. More information is needed about the source, fate, and transfer of toxic pollutants in the marine environment. The proposed activities will provide decision-makers with more precise information about the sources of contaminants in Puget Sound and about the impact of potential loading reductions strategies on toxic levels in the marine system. The proposed activity will build upon two current projects: an effort to identify loadings of toxic contaminants (complete by mid-2007) and preliminary efforts to develop a consortium of state, local and federal agencies to develop monitoring protocols and strategies for urban receiving waters. The proposed activity would complement three enhancements proposed by Ecology for 2007-09 : study of atmospheric deposition; development of a local/state monitoring consortium, and urban water action teams.

Proviso funded activities: To improve our certainty and develop guidance about where to focus, and what to expect from, efforts to reduce the release of toxic chemicals, PSAT staff will coordinate a multi-agency effort to improve the characterization of loads of toxic

contaminants to Puget Sound and the fate of these contaminants in the Puget Sound ecosystem. The specific scope and implementation of this activity will be developed through a multi-agency collaborative process.

Expected Results:

- A characterization of the status and trends of toxic contamination and their effects in the Puget Sound ecosystem is coordinated, with newly identified contaminants of concern included in the characterization. (PSAMP and PSAT, EPA, U.S. Fish and Wildlife Service)
- By the end of FY 2009, this activity would provide information to decision makers (via final report and presentations) about:
 - 1) the largest ongoing sources of top priority contaminants to Puget Sound and the pathways and points of release into aquatic environments and to Puget Sound (includes permitted discharges of wastewater and stormwater, urban and non-urban runoff and discharge to shorelines, creeks, and rivers, atmospheric deposition, spills)
 - 2) the average annual loading (mass) of each pollutant of concern entering Puget Sound from each pathway
 - 3) changes in loads over time in relation to management activities
 - 4) the relative importance of pollutant loadings from different sources and pathways
 - 5) the influence of potential loading reductions (alternative scenarios) on the toxic contaminant conditions in Puget Sound sediments and organisms (e.g., amount and timing of recovery).

Agency: PSAT staff

Budget code title: Climate Change Preparation and Planning

Total proposed funds: \$200,000

Budget Code	Continuing proviso funds	Other Funds	Proposed Adjustment	Funding source	Priorities, Strategies & Results	PS Plan Program
PSAT-13			200,000	GF-S	Priority 8: 1a,b; 2a; 3 a, b; 4a	EM

Program description: The proposed activities will enhance our ability to educate local, state, federal and tribal planners, private contractors, and shoreline landowners on the implications and anticipated effects of climate change. In 2005, the Puget Sound Action Team (PSAT) released a report that documented the changes in the Pacific Northwest climate and hydrologic patterns due to climate change. The report also indicated that the Puget Sound region is likely to experience negative impacts including increased sea levels, more intense storm activities, greater water runoff and altered stream flows. However these anticipated impacts are not understood by planners, and consequently we are not preparing for these impacts in a variety of state and local plans and projects.

Proviso funded activities: Anticipated impacts to the Puget Sound region from climate change could significantly impact shoreline development, nearshore restoration projects, stormwater management, and salmon recovery projects. The activities proposed in this decision package are targeted to those planners, project implementers and decision makers who are responsible for areas and programs most likely to be affected by climate

change impacts. The actions funded through this proposal will 1) review and identify activities related to Puget Sound efforts most likely to be impacted by climate change and develop specific recommendations for changes to management and planning activities ; 2) issue semiannual reports of the most recent scientific studies relating to climate change and its impact on marine systems; 3) hold at least 3 workshops on the most recent research on climate change and implications for the Puget Sound region; 4) work with regional leaders incorporate recommendations in species conservation and recovery plans; and, 5) work with Action Team partner agencies to develop a strategy for resource management changes in response to climate alterations.

Expected Results:

- Semiannual reports are provided on the most recent scientific studies relating to climate change and its impact on marine systems.
- A workshop is held for regional scientists and resource managers to exchange research findings on the implications of climate change to the Puget Sound region.
- A risk-assessment model applicable to Puget Sound is provided to state, local and tribal government agencies.
- A “case statement” is produced to address the most recent research relating to implications to conservation and recovery activities, with recommendations for changes to these activities.
- Regional leaders working on conservation and recovery projects incorporate the recommendations on possible climate change impacts into conservation and recovery plans.
- A strategy for state agencies is developed to examine how resource management policies would perform in the future if various elements of climate were altered.

Department of Transportation

Agency: Transportation

Budget code title: Stormwater—construct runoff treatment and flow control BMPs

Total proposed funds: 48,850,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOT-01		48,850,000		MVH	Priority 3: 4 a,b,c, and d	SW

Program description: The estimated costs for stormwater are based on the 2007-09 highway construction program budget for those planned projects that discharge directly or indirectly into Puget Sound. The amount is based on a historic average percentage of 5% of project cost attributed to stormwater management. Program reviews of stormwater costs are showing reduced costs as a result of better stormwater BMP designs included in the 2006 Highway Runoff Manual. The funds identified above are based on projects in the Olympic and Northwest Regions of WSDOT.

Proviso funded activities: none

Expected Results: Link to Priority 3.d results for: “Reduce the harm from stormwater runoff.” The funds identified provide for constructing stormwater treatment facilities on projects planned during the 07-09 biennium. The work complies with requirements identified in the *WSDOT Highway Runoff Manual* and applicable regulations. Treatment facilities constructed during 07-09 will continue to add to the inventory of Best Management Practices for treating stormwater quality and flow. The net result is a continuing incremental improvement in the quality and quantity of stormwater discharged by WSDOT into Puget Sound and into waters that drain to the Sound. During this biennium numerous projects funded by new gas taxes will begin construction.

Agency: Transportation

Budget code title: Contaminated Sediments Remediation

Total proposed funds: 270,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOT-02		270,000		MVF	Priority 1, 2a	S

Program description: Washington State Ferries (WSF) operates the Eagle Harbor Maintenance Facility. This site is located in an Environmental Protection Agency Superfund site. WSF and others are responsible under a court order to maintain and monitor the functions of the near shore disposal site for contaminated sediments. WSF is in the ninth year of a ten-year Operations and Maintenance Plan. The costs shown are for the expected monitoring and management costs for the next biennium including costs for State Force work.

Proviso funded activities: none

Expected Results: The objective of the site monitoring program is to demonstrate that the nearshore disposal facility is an effective engineered system to contain contaminated sediment and prevent further contamination of Eagle Harbor. Results of monitoring to date are demonstrating that the source controls implemented on the site are effective.

Agency: Transportation

Budget code title: Wetland Impacts Mitigation

Total proposed funds: 56,550,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOT-03		\$56,550,000		MVF	Priority 5 Strategy 2	MFH

Program description: These funds are for mitigating wetland impacts from WSDOT projects for the Northwest and Olympic Regions, the Urban Corridors Office, and Ferries. The Northwest Region estimates wetland impacts of 36.2 acres (\$16.2 million, excluding the cost of real estate) for projects going to AD in 07-09. This assumes a 2:1 mitigation ratio with a 100 foot buffer, which may be the best-case scenario (ratios could average 4:1). Putting a buffer around a mitigation site for one acre of impact comes to an additional 4.5 acres of real estate. The cost per acre in the Northwest Region ranges roughly from \$7,000-\$100,000 per acre. The Olympic Region estimates wetland impacts to 16 acres (\$12 million). The Urban Corridors Office estimates 33 acres of impacts from four projects. One project would use a mitigation bank, and the others would construct concurrent mitigation (\$28 million, including real estate).

These funds (\$350,000) also include mitigating Washington State Ferries future impacts to habitat from the Port Townsend Ferry Terminal preservation and improvement project. Impacts will include additional over-water cover, substrate loss from pile installation and eelgrass impacts. WSF plans to plant eelgrass near the ferry terminal to mitigate for these impacts in the 07-09 biennium.

Proviso funded activities: none

Expected Results: Link to Priority 5.A. "Habitat is conserved" and 6.A. "Restoration projects improve habitat". Also link to Priority 6.B. Ref: result #4 regarding the "piloting of mechanisms to optimize the environmental benefits derived from environmental impact mitigation." Even though these funds are for conservation or restoration, projects per se, WSDOT strictly follows mitigation sequencing and as a result, wetland impacts are avoided whenever possible. In addition, when impacts are unavoidable, restoration of degraded habitats is a high priority for compensatory mitigation. WSDOT has a robust mitigation monitoring program that ensures success of mitigation, including site remediation, if necessary. Finally, WSDOT is a leader in piloting methodology and mechanisms to optimize environmental benefits and use of watershed-based mitigation to promote the restoration of priority habitats.

10-3-06

Action Team – PS Council Review Draft

Agency: Transportation

Budget code title: Fish Passage Barrier Inventory and Removal

Total proposed funds: 8,500,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOT-04		8,500,000		MVF	Priority 6 Strategy 1	MFH

Program description: WSDOT/WDFW cooperative fish passage barrier inventory and removal program. This amount includes funding for habitat assessment and pre-scoping of projects and funding for the removal of 12 barriers for 07-09 in Puget Sound counties.

Proviso funded activities: none

Expected Results: Link to Priority 6.A. “Restoration projects improve habitat”, Ref: Result #3. Removal of fish passage barriers and increase in stream habitat available to salmonids and resident fish species. Removal of fish passage barriers increases the amount of in stream habitat available to salmonids and resident fish species.

Agency: Transportation

Budget code title: Removal of Creosote-Treated Pilings & Dolphins

Total proposed funds: 6,500,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
DOT-05		6,500,000		MVF	Priority 1-1-f	S

Program description: During the maintenance, repair and improvement of ferry terminal docks and associated structures, Washington State Ferries removes creosote-treated pilings and dolphins from Puget Sound. These structures are then replaced with concrete, steel or other environmentally-benign material. Of the total amount of funds, \$6,000,000 is for the demolition of the Defense Fuel Supply Point tank farm dock in preparation for moving the Mukilteo ferry terminal to a new location. There is a range of cost of \$3,000,000 - \$9,000,000 because the alternative for the new terminal has not been selected. Depending on the alternative selected, part or all of the dock will be removed. For purposes of this exercise, the mid-point cost (\$6M) is used. The remaining \$500,000 reflects planned work at four other terminals for the biennium.

Proviso funded activities: none

Expected Results: Link to Priority 1: Clean up contaminated sites and sediments: 5000 tons of creosote pilings are removed from the Puget Sound marine environment. (DNR, State Parks – additional funding requested, WSDOT/Washington State Ferries)

University of Washington Sea Grant Program

Agency: University of Washington Sea Grant Program

Budget code title: UW-01

Total proposed funds: \$330,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
UW-01	\$330,000			GF-S	P3.8.c; P4.5.b, c,d,e; Hood Canal 5.a.b; P5.4.a,b,d,e P5.6.c; P7 Shellfish.b	EPI, NP, SH, MFH

Program description: Since 1990, the Washington Sea Grant (WSG) has delivered public involvement, education and technology transfer programs on water quality issues in cooperation with WSU-Extension and county governments in Mason, Kitsap, Jefferson, Thurston, and Pierce counties. The WSGP program addresses water resources associated with rural, urban and urbanizing areas with marine waters. Program topics include habitat loss, shoreline stewardship, restoration, non-point source pollution, watershed planning, conservation of fish and shellfish, seaweeds and tidal plants of Puget Sound.

Proviso funded activities: (100 word limit)

WSGP water quality field agents, in coordination with other entities, will conduct the following activities:

- Provide workshops, create reference materials, and provide technical assistance to shoreline residents in shellfish growing and monitoring, elimination of organic debris in Hood Canal, and watershed management in Kitsap and Mason counties.
- Coordinate Kitsap Nearshore Outreach Group and provide professional development opportunities for its members.
- Coordinate Water Festival and Salmon Tours in Kitsap and Kids Day at Oyster Fest in Mason County
- Coordinate workshops addressing pet waste problems in Puget Sound counties.
- Coordinate annual Shellfish conference in Mason County addressing water quality issues with industry and regulators.
- Facilitate shellfish sampling by shoreline residents in Mason county to measure levels of fecal coliform and Vibrio.
- Conduct “septic socials” and clinics designed to eliminate garbage grinders and install micro-screens in kitchen sinks.

Expected Results:

Priority 2: Prevent toxic contamination

Strategy4: Educate residents to change behaviors to reduce toxic contamination

- e. 500 homeowners will adopt least toxic cleaning alternative practices and demonstrate improved literacy of consumer label reading of commercially available products. (Sea Grant)

Priority 3: Prevent harm from stormwater runoff

Strategy 8. Educate and involve the public in preventing harm from stormwater runoff.

- c. 300 homeowners implement best management practices to prevent stormwater runoff from their properties. (Sea Grant).

Priority 4: Prevent nutrient and pathogen pollution

Strategy 5. Educate and involve residents and others to enhance stewardship activities.

- b. 1,000 (SG) and 10,000 (WSU) homeowners change their landscape practices to ensure that fertilizers applied to their yards do not migrate to surface waters. (Sea Grant, WSU Extension) *Note: Target numbers will be combined in the document.*
- c. 500 homeowners will actively manage their tideland for shellfish culture thereby filtering nutrient-rich phytoplankton from the water column. (Sea Grant)
- d. 200 tideland owners will monitor, record, quantify, and map the varieties of macroalgae and shellfish residing on their beaches. (Sea Grant)
- e. 150 environmental health professionals, conservation district staff, and environmental educators will participate in continuing education trainings regarding pathogen and nutrient pollution. (Sea Grant)

Special Focus Area: Hood Canal

Strategy 5. Educate the public about the low dissolved oxygen problem in Hood Canal and engage them in activities to improve water quality.

- b. 1,500 residents receive information about corrective actions in the Canal and resources to help them adopt behaviors that will protect the Canal. (WSU Extension, Sea Grant, PSAT)
- c. 1,000 residents actively participate in stewardship programs and adopt canal-friendly practices in managing their homes and landscapes. (WSU Extension, Sea Grant)

Priority 5: Protect functioning marine and freshwater habitats

Strategy 4. Prevent the introduction or expansion of new aquatic nuisance species in Puget Sound through regulatory and volunteer approaches.

- e. Training and educational materials are provided to recreational divers to identify and report the presence of invasive aquatic species. (WDFW, Sea Grant, PSAT)

Strategy 6. Develop a network of sustainable resources to support Soundwide public outreach and landowner education and stewardship.

10-3-06

Action Team – PS Council Review Draft

- c. 400 Beach Watcher volunteers are trained and Shore Stewards increase membership in the north Sound by 1,000 members. (WSU Extension—may require additional funding, Sea Grant)

Agency: University of Washington Sea Grant Program

Budget code title: UW-02

Total proposed funds: \$225,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
UW-02	\$170,000		\$55,000	OSAA	P2.4.a,b,c,e	SP

Program description: Operating under the state Oil Spill Prevention and Response Act of 1991, this Washington Sea Grant Program voluntary prevention education program emphasizes direct interaction with vessels and marina operators and other marine users and agencies to provide safe and practical alternatives to spill-prone practices and to exchange ideas and technical information. Small spills involving highly toxic, refined or contaminated waste oil products add up and their cumulative impact can be particularly harmful to shallow, fertile nearshore environments. The program targets commercial fishing and recreational boat operators, ferries, ports and marinas, and shellfish growers to promote innovative methods for waste oil reduction and recycling, as well as sound maintenance and operating practices. Request for enhanced funding asked to cover salaries and operational costs that have increased every year since inception of this position without any increases in proviso-ed funding and indication that University will charge 15% overhead on this account starting next biennium.

Proviso funded activities: WSGP, in coordination with other entities, will conduct the following activities:

- Distribute spill prevention kits and fuel collars
- Train Coast Guard Auxiliary flotillas to provide more effective spill and pollution prevention education to boaters.
- Conduct spill prevention seminars in conjunction with WSG fishing vessel safety workshops.
- Work with selected marinas to develop comprehensive training and education programs to eliminate spill-prone fueling and maintenance practices, including training in the Clean Marina Program.
- Chair Pacific Oil Spill Prevention Education Team (POSPET) to ensure promotion of State 1-800-Oils911 spill reporting number and to encourage networking among regional spill prevention agencies and organizations.
- Train shellfish growers in oil spill prevention techniques and HAZMAT oil spill mitigation methods.

Expected Results:

Priority 2: Prevent toxic contamination

Strategy 4. Educate residents to change behaviors to reduce toxic contamination.

- a. Eight marinas reached with Sea Grant spill prevention education will achieve Clean Marina status. (Sea Grant)

- b. Provide 30 Puget Sound shellfish growers with spill prevention and preparedness education and training. (Sea Grant)
- c. 100 commercial fishermen receive spill prevention outreach aimed at eliminating fuel spills and bilge discharges. (Sea Grant)
- e. 500 boat owners will adopt least toxic cleaning alternative practices and demonstrate improved literacy of consumer label reading of commercially available products. (Sea Grant)

Agency: University of Washington Sea Grant Program

Budget code title: UW-02

Total proposed funds: \$150,000

Budget Code	Continuing Proviso Funds	Continuing Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
UW-02			\$150,000	OSAA	P2.4.a,b,c,e	SP

Program description: WSG, in cooperation with appropriate state agencies, will undertake a two-year comprehensive study to quantify the extent of annual pollution to Puget Sound from small spills of less than 25 gallons. The impact of small spills has been speculated at millions of gallons per year, but no documentation exists for these estimates. WSG Oil Spill Prevention Specialist will be lead on this together with researchers and student support from University of Washington.

Proviso funded activities: The project will have two phases:

1. Comprehensive literature and data search on previous research and on locations, impacts and types, sizes and causes/sources of small oil spills that requires access to USCG and Dept. of Ecology spill data, accompanied by interviews with marina and vessel operators and review of documents and research.
2. Field work with onsite water sampling and analysis. First, the sampling design and protocol would be developed. Then, the study would identify “hot spots” for small spills, establish water quality baseline data and correlate variations in boating activities as they relate to pollution. Sampling would be conducted at selected marinas and other marine transportation sites and the data analyzed and extrapolated for a statewide analysis.

Expected Results:

- Quantification of extent of small spills in Puget Sound waters
- Comprehensive data base of existing small spill research
- Identification of primary causes and sources for small spills
- Evaluation of water quality effects of small spills

Washington State University Extension

Agency: Washington State University Extension

Budget code title: WSU-01

Total proposed funds: \$420,000

Budget Code	Continuing Proviso Funds	Other Funds	Proposed Adjustment	Funding Source	Priorities, Strategies & Results	PS Plan Program
WSU-01	\$420,000			GF-S	P3.3.c,d - 3.6.d P3.8.a - 4.3.d P4.5.a,b Hood Canal Strategy 5 a, b Priority 5 6.b,c	EPI

Program description: (100 word limit) The WSU Extension Water Quality Field Agent program in Kitsap, Jefferson, Mason, Pierce and Thurston Counties will educate and involve the public on stewardship activities that will protect functioning marine and freshwater habitats, prevent harm from stormwater runoff and prevent nutrient and pathogen pollution. The program will have a special emphasis on Hood Canal issues. As possible, the program will also share resources and activities soundwide.

Proviso funded activities: WSU Extension uses these funds for Water Quality Field Agents that work at the local level in Kitsap, Jefferson, Mason, Pierce and Thurston Counties. These field agents assist local governments and communities, as well as initiate the development, implementation, and evaluation of education and public involvement activities. Field agents also provide assistance to Action Team outreach efforts; facilitate citizen participation in local and state water quality issues; assist local shellfish protection districts and watershed committees; facilitate the transfer of research to bear on local issues; as well as facilitate the communication of local research needs to appropriate university programs.

Expected Results:

Priority 3: Prevent harm from stormwater runoff

Strategy 3. Increase the use of LID techniques where appropriate and help ensure that the LID approach is the first, preferred option considered to develop land and manage stormwater.

- c. The LID Technical Guidance Manual for Puget Sound is updated, based on monitoring results and research. (PSAT, WSU Extension)
- d. Additional LID training is made available to local government staff, the development community, consultants and others. (PSAT staff, WSU Extension)

Strategy 6. Develop and begin to implement a Soundwide monitoring program to better understand the impacts of stormwater runoff on Puget Sound and the effectiveness of management practices.

- d. Increased exchange of information and protocols between 125 researchers and practitioners through a Puget Sound LID stormwater monitoring forum. (WSU Extension)

Strategy 8. Educate and involve the public in preventing harm from stormwater runoff.

- a. At least 10,000 homeowners, vehicle owners, members of the real estate and development community, and state, tribal and local government staff increase their knowledge, skills and motivation to change behaviors and practices to reduce contamination and volume of stormwater runoff. This will include awarding 8,000 clock hours to real estate professionals. (WSU Extension)

Priority 4: Prevent nutrient and pathogen pollution

Strategy 3. Support effective and innovative implementation of regulatory and non-regulatory approaches.

- d. Comprehensive farm management training programs are provided for 250 small farm operators. (WSU Extension)

Strategy 5. Educate and involve residents and others to enhance stewardship activities.

- a. Throughout Puget Sound, citizens engage in public education and involvement opportunities that change behavior and result in actions to reduce nutrient and pathogen pollution and to increase beneficial uses of state waters, including safe harvest of shellfish. (PSAT, WSU Extension)
- b. 5,000 (WSU) homeowners change their landscape practices to ensure that fertilizers applied to their yards do not migrate to surface waters. (Sea Grant, WSU Extension)

Special Focus Area: Hood Canal

Strategy 5. Educate the public about the low dissolved oxygen problem in Hood Canal and engage them in activities to improve water quality.

- b. 3,000 residents receive information about corrective actions in the Canal and resources to help them adopt behaviors that will protect the Canal. (WSU Extension, Sea Grant, PSAT)
- c. 1,000 residents actively participate in stewardship programs and adopt canal-friendly practices in managing their homes and landscapes. (WSU Extension, Sea Grant)

Priority 5: Protect functioning marine and freshwater habitats

Strategy 6. Develop a network of sustainable resources to support Sound-wide public outreach and landowner education and stewardship.

- b. At least 800 local government staff, real estate professionals, developers and citizens increase their knowledge and behaviors to better protect functioning habitats. This will include awarding 10,000 clock hours to real estate professionals. (WSU Extension)
- c. 400 Beach Watcher volunteers are trained and Shore Stewards increase membership in the north Sound by 1,000 members. (WSU Extension, Sea Grant)